

Disclaimer: Anne Arundel Community College's 2024-2025 Print Version Catalog

The online version of the Anne Arundel Community College catalog (catalog.aacc.edu) is the official reference for the college's academic programs, courses, and academic procedures. A print copy of the college catalog does not represent the fullest, and most current catalog information available to users. The online catalog should be used as a guide in planning a course of study and in meeting requirements for graduation. The program requirements listed in the AACC online catalog represent the requirements in the official document of record and supersede any information that may be contained in any bulletin of any school or department, or any print version of the catalog.

Notice of Nondiscrimination

AACC is an equal opportunity, affirmative action, Title IX, ADA Title 504 compliant institution. For information on AACC's compliance and complaints concerning sexual assault, sexual misconduct, discrimination or harassment, contact the federal compliance officer at 410-777-1239 or Maryland Relay 711.

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Majors and Programs

Addiction Counseling (A.A.S.)

Official Title of Major: Addiction Counseling, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.HUS.ADD-CNSL

Total Credit Hours: A minimum of 60

Visit www.aacc.edu to learn more about the Addiction Counseling Degree Program

Purpose: Prepares students for careers in addiction counseling and enhances knowledge and skills of those already working in the field. Skills include individual, family and group counseling techniques, as well as assessment, treatment planning, prevention, and other topics related to addiction. Coursework includes 250 hours of clinical fieldwork. The degree provides the necessary academic coursework to attain certification as a certified supervised counselor-alcohol and drug (CSC-AD) by the Maryland Board of Professional Counselors. Students should contact the Maryland Board of Professional Counselors for all licensure and certification requirements at **410-764-4732** or <https://health.maryland.gov/bopc/> for requirements.

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Additional Program Requirements

Students must earn a grade of C or better in all human services courses. In order to complete the degree, 250 hours of unpaid clinical fieldwork in a community addiction agency is required.

Range of Occupations

- Addiction counselor

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Entrance/Admission Requirements

Admission Requirements

Demonstrated eligibility for ENG 101/ENG 101A.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see the Health Sciences section of this catalog.

General Education Requirements: 25 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

See General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 4 credits

- BIO 101 - Foundations of Biology: Molecules and Cells 4 *credit hours* **OR**
- BIO 230 - Structure and Function of the Human Body 4 *credit hours*

Mathematics: 3 credits

Must choose a general education 3 credit hour math course. See General Education Mathematics Requirements for a list of approved courses. If planning to transfer to a social work program you should take MAT 135. Please refer to Transfer Agreements for all specific requirements for Bachelor degree programs.

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology 3 *credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 *credit hours*

Must select from:

- CTA 100 - Computing and Information Technology
- CTP 103 - Theories and Applications of Digital Technology

- **Wellness Requirement** 3 *credit hours*

See General Education Wellness Requirements for a list of approved courses.

Program Requirements: 35 credits

- PSY 214 - Abnormal Psychology 3 *credit hours*
This course meets a General Education Requirement while simultaneously meeting a Program Requirement for this degree. This course is required for Fast Track students.
- HUS 101 - Human Service and Addiction Counseling Ethics in Practice 3 *credit hours*

- HUS 102 - Physiological Aspects of Chemical Dependence 3 credit hours
- HUS 114 - Counseling, Assessment and Case Management 3 credit hours
- HUS 115 - Fieldwork: Counseling, Assessment and Case Management 3 credit hours
- HUS 130 - Introduction to Family Counseling 3 credit hours
- HUS 140 - Topics in Alcohol and Drug Counseling: Co-occurring Disorders 3 credit hours
- HUS 141 - Group Dynamics 3 credit hours
- HUS 200 - Addiction Treatment Delivery 3 credit hours
- HUS 216 - Theories of Counseling 3 credit hours
- HUS 217 - Fieldwork: Theories of Counseling 3 credit hours
- HUS 234 - Trauma Informed Care 2 credit hours

Diversity Requirement

Satisfied by HUS 101.

Technology Requirement

Satisfied by CTA 100 or CTP 103.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Summarize the field of human services and addiction professional's obligations to adhere to legal, ethical and behavioral standards of conduct in the helping relationship.
2. Demonstrate basic counseling and case management skills and techniques in order to facilitate client services.
3. Design a plan to assess clients, design and implement specific and measurable goals.
4. Describe the administrative aspects of service delivery.
5. Develop interpersonal skills with clients and team members and demonstrate professional behaviors.
6. Examine how their own values, personalities, reaction patterns, interpersonal styles, limitations and self-care practices impact their role as a human services professional.
7. Analyze the importance of family, social networks, and community systems in the treatment process.
8. Students will identify community resources.
9. Students will demonstrate effective group facilitation skills.
10. Identify and explain a variety of models and theories of addiction.
11. Describe the behavioral, psychological, physical health, and social effects of psychoactive substances on the person using and significant others
12. Describe the philosophies, practice, and policies of models of treatment, recovery, relapse prevention, and continuing care for addiction and co-occurring disorders.
13. Employ screening instruments to gather initial data about substance use and co-occurring disorders from the client that is sensitive to age, gender, race, ethnicity, religion, and disabilities.
14. Students will have knowledge of individual therapeutic modalities that facilitate behavioral change.
15. Complete required fieldwork with the Human Services Department and apply meaningful connections between classroom learning and experiences in the field.

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Addiction Counseling (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information.

Addiction Counseling (certificate)

Official Title of Certificate: Addiction Counseling, Certificate

Award: Certificate

Code: CRT.HUS.ADD-CNSL

Total Credit Hours: 24

Visit www.aacc.edu to learn more about the Addiction Counseling certificate program

Purpose: Prepares students for careers in addiction counseling and enhances knowledge and skills of those already working in the field. Skills include individual, family and group counseling techniques, as well as assessment, treatment planning, prevention, and other topics related to addiction. Coursework includes 125 hours of clinical fieldwork. Successful completion of the course work meets the educational requirements to pursue an Alcohol Drug Trainee (ADT) status. Students should contact the Maryland Board of Professional Counselors for all licensure and certification requirements at **410-764-4732** or <https://health.maryland.gov/bopc/> for requirements.

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Range of Occupations

- Addiction counselor

Additional Program Requirements

Students must earn a grade of C or better in all human services courses. In order to complete the certificate, 125 hours of unpaid clinical fieldwork in a community addiction agency is required.

Entrance/Admission Requirements

Admission Requirements

Demonstrated eligibility for ENG 101/ENG 101A.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see the Health Sciences section of this catalog.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 24 credits

- HUS 101 - Human Service and Addiction Counseling Ethics in Practice *3 credit hours*
- HUS 102 - Physiological Aspects of Chemical Dependence *3 credit hours*
- HUS 114 - Counseling, Assessment and Case Management *3 credit hours*
- HUS 115 - Fieldwork: Counseling, Assessment and Case Management *3 credit hours*
- HUS 130 - Introduction to Family Counseling *3 credit hours*
- HUS 140 - Topics in Alcohol and Drug Counseling: Co-occurring Disorders *3 credit hours*
- HUS 141 - Group Dynamics *3 credit hours*
- HUS 200 - Addiction Treatment Delivery *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Have knowledge of a variety of models and theories of addiction.
2. Describe the behavioral, psychological, physical health, and social effects of psychoactive substances on the person using and significant others.
3. Describe the philosophies, practice,, and policies of models of treatment, recovery, relapse prevention, and continuing care for addiction and co-occurring disorders.
4. Recognize the importance of family, social networks, and community systems in the treatment process.
5. Identify established diagnostic criteria for substance use disorders, and describe treatment modalities and placement criteria within the continuum of care.
6. Understand diverse cultures, and incorporate the relevant needs of culturally diverse groups, as well as people with disabilities, into clinical practice.
7. Outline the addiction professional's obligations to adhere to legal, ethical and behavioral standards of conduct in the helping relationship.
8. Use screening instruments to gather initial data about substance use and co-occurring disorders from the client.
9. Select and use a comprehensive assessment process that is sensitive to age, gender, race, ethnicity, religion, and disabilities.
10. Develop treatment plans.
11. Have knowledge of community resources and will make appropriate referrals.
12. Demonstrate case management and service coordination as part of an interdisciplinary treatment team.
13. Have knowledge of individual therapeutic modalities that facilitate behavioral change.
14. Understand group counseling modalities for substance use disorders.
15. Demonstrate knowledge of accepted principles of client record management.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Addiction Counseling (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Administrative Medical Assistant (lor)

Official Title of Letter of Recognition: Administrative Medical Assistant, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: 8 credit hours after completion of prerequisites or equivalent.

Purpose: This short, three-course sequence is designed for persons who wish to prepare themselves for the administrative role in the medical office. Upon completion of this course of study, students will demonstrate ability in:

- Filing medical insurance claims and writing accurate appeals.
- Applying the principles of basic medical law to the daily operations of the medical office.
- Applying office management principles to the daily operation of the office.
- Managing the front office in a medical setting: preparing professional documents and patient scheduling.

Students completing the Administrative Medical Assistant Letter of Recognition from AACC are eligible to take the National Healthcareer Association Certified Medical Administrative Assistant (CMAA) exam.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Entrance/Admission Requirements

Entrance Requirements

1. Eligibility for ENG 101 / ENG 101A
2. MDA 113 - Medical Terminology *3 credit hours*

Degree/Award Requirements

Degree Requirements

Completion of the required courses with a grade of C or better.

Award Requirements

Students apply to the Records and Registration office for the letter of recognition after they complete the program requirements.

Requirements: 8 credits

- MDA 111 - Laws and Ethics for Health Professionals *2 credit hours*
- MDA 115 - Administrative Medical Assisting 1 *3 credit hours*
- MDA 117 - Administrative Medical Assisting 2 *3 credit hours*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Advanced Digital Forensics (certificate)

Official Title of Certificate: Advanced Digital Forensics, Certificate

Award: Certificate

Code: CRT.CIS.DIGIT-FRSC-A

Total Credit Hours: 25

Visit www.aacc.edu to learn more about the Cybersecurity, Networking and Digital Forensics Department

Purpose: Perform forensic investigations, incident handling, and conduct incident investigations. Gain the knowledge and skills necessary to execute forensic investigations of networks, hosts, and mobile devices, including the use of standard computer forensics and evidence handling techniques to collect, process, review, analyze and produce electronic evidence. The program fully maps to the eight knowledge domains currently specified by the Department of Defense Cyber Crime Center (DC3) and fully prepares students for the Magnet Certified Forensic Examiner (MCFE) exam. Upon completion of the Advanced Digital Forensics Certificate, students are eligible for DoD/DC3 National Centers of Digital Forensics Academic Excellence program certificates.

Related Industry Certifications

This program provides full or partial foundation for the following industry recognized certificates and certifications: Department of Defense Cyber Crime Center (DC3) certificate and Magnet Certified Forensic Examiner (MCFE), Network+ (CompTIA) and the Security+ (CompTIA) industry certification exams.

Range of Occupations

- Computer forensics technician
- Digital forensics specialist
- Digital forensics investigator
- Forensic support specialist
- Incident response analyst

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 25 credits

- CJS 111 - Introduction to Criminal Justice *3 credit hours*
- CTS 107 - Cyber Essentials *3 credit hours*
- CTS 110 - Network Essentials *4 credit hours*
- CTS 120 - Introduction to Linux *4 credit hours*
- CTS 170 - Digital Forensics 1 *3 credit hours*
- CTS 207 - Digital Forensics 2 *4 credit hours*
- CTS 209 - Digital Forensics 3 *4 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Plan and perform digital forensic investigations including preservation, handling, analysis, and documentation of evidence
2. Use industry standard tools to access digital evidence and conduct forensic analysis
3. Relate the functionality of operating systems and networks to digital evidence
4. Apply Constitutional and case law to digital forensics investigations

5. Effectively communicate technical information

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Information Assurance and Cybersecurity (A.A.S.)
- Digital Forensics (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Advanced Network Security (certificate)

Official Title of Certificate: Advanced Network Security, Certificate

Award: Certificate

Code: CRT.CIS.NET-SEC-ADV

Total Credit Hours: 16

Visit www.aacc.edu to learn more about the Cybersecurity, Networking and Digital Forensics Department

Purpose: Provides students with the hands-on skills and knowledge to protect cyber computer networks. Skills covered include the design and implementation of firewalls, IDS, wireless security, cryptography, Linux security, Windows security, among others. In addition to network security fundamentals students will learn valuable defense and countermeasures.

Related Industry Certificates

This program provides partial foundation for the following industry recognized certifications: Security+ (CompTIA) and Linux+ (CompTIA) industry certification exams.

Range of Occupations

- Internet security specialist
- IT compliance specialist
- IT manager
- Network administrator
- Network analyst
- Systems analyst

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 16 credits

- CTS 140 - Network Security Fundamentals *4 credit hours*
- CTS 240 - Advanced Network Defense *4 credit hours*
- CTS 242 - Network Intrusion Detection and Penetration Testing *4 credit hours*
- CTS 222 - UNIX/LINUX System Administration *4 credit hours*
- OR**
- CTS 234 - Windows Server *4 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Perform TCP/IP addressing, routing, and packet filtering.
- Install proxy servers, firewalls, and virtual private networks (VPNs).
- Secure network perimeters and harden network infrastructure.
- Identify the priorities and processes used to protect computer and network systems.
- Identify network vulnerabilities, implement network defense strategies and develop alternate solutions based upon cost and level of security required.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Information Assurance and Cybersecurity (A.A.S.)
- Network Security (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

American Sign Language (A.A.)

Official Title of Major: American Sign Language, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.ASL.ASL

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the American Sign Language program

Purpose: The American Sign Language (ASL) transfer degree will provide students a thorough and rigorous preparation to complete bachelors and masters-level training for careers as case managers, residential counselors, teaching assistants, job coaches, and administrative assistants. Graduates can choose to pursue further training to become ASL interpreters, or go on to graduate degree programs in social work, Deaf education, audiology, speech pathology, and business administration.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement
- ENG 102 - Academic Writing and Research 2 3 *credit hours*

Arts and Humanities: 6 credits

One arts and humanities general education course other than ASL - 3 *credit hours*

- ASL 111 - American Sign Language 1 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 6 credits

Choose two courses from two different disciplines. Refer to General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 *credit hours*

Refer to General Education Technology Requirements for a list of approved courses.

- **Wellness Requirement** 3 *credit hours*

Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 26 credits

Students with prior ASL knowledge are encouraged to meet with the ASL coordinator to determine placement into higher level courses.

Required Courses: 21 credits

- ASL 112 - American Sign Language 2 3 credit hours
- ASL 120 - Introduction to the American Deaf Community 3 credit hours
ASL 120 fulfills the Diversity Requirement.
- ASL 121 - Deaf Culture 3 credit hours
- ASL 140 - Introduction to Interpreting 3 credit hours
- ASL 210 - American Sign Language 3 3 credit hours
- ASL 211 - American Sign Language 4 3 credit hours
- ASL 213 - Comparative Linguistics: American Sign Language and English 3 credit hours

Electives: 5 credits

It is recommended that students check with an advisor before selecting electives. No more than three credits of physical activity courses may be used as electives.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate effectively at an intermediate level in American Sign Language with diverse audiences on academic and personal topics.
2. Compare the linguistic systems of American Sign Language and English.
3. Apply an awareness of social diversity and the ways in which cultural values are historically and socially situated.
4. Assess the intersection of Deaf culture and identity with hearing American society.
5. Develop technological and electronic media skills.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

American Sign Language (lor)

Official Title of Letter: American Sign Language, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: A minimum of nine

Visit www.aacc.edu to learn more about the American Sign Language program

Purpose: An American Sign Language (ASL) Letter of Recognition provides a basic foundation of ASL and an appreciation of Deaf history and culture or an understanding of ASL interpretation. This makes it possible for learners in any area of study to serve the Deaf and Hard of Hearing population. These courses integrate basic ASL conversations adhering to ASL linguistic structures and cultural norms with introductory history and culture of the American Deaf community or the theoretical processes and ethics of interpreting.

Note: This letter of recognition does not qualify recipients as interpreters.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Degree/Award Requirements

Award Requirements

Completion of the required courses with a grade of C or better. Students must apply to the Records and Registration office for the letter of recognition after they have completed the requirements.

Requirements: 9 credits

- ASL 111 - American Sign Language 1 3 *credit hours*
- ASL 112 - American Sign Language 2 3 *credit hours*

And at least one (1) of the following: 3 credits

- ASL 120 - Introduction to the American Deaf Community 3 *credit hours*
- ASL 140 - Introduction to Interpreting 3 *credit hours*
- ASL 210 - American Sign Language 3 3 *credit hours*

Related Educational Opportunities

Related Educational Opportunities

Additional courses, credentials and/or certifications may be available through the AACC School of Continuing Education and Workforce Development. Visit www.aacc.edu/coned for more information.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Architecture and Interior Design - Landscape Design (A.A.S.)

Official Title of Major: Architecture and Interior Design - Landscape Design, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.ACH.LAND-DSGN

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: The option serves as an introduction to Landscape Architecture while developing essential workforce skills for use in the profession. The program focuses on the creation of the outdoor environments using a design process that incorporates aspects of ecological systems and human behavioral design strategies. Diverse landscape typologies are explored to acquire analytical skills inclusive of environmental, socio-political, health and safety, and sustainable influences. An emphasis on the utilization of technical design skills, methods of construction, and industry technologies is implemented to construct oral, written and visual presentations integral to the Landscape Architecture Profession.

Range of Occupations

- Landscape Design Intern
- Landscape Design CAD operator
- Site Surveyor
- Map Developer
- Garden and Nursery Assistant
- Sustainability Officer
- Sustainability Specialist
- Water Resource Specialist

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 22 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- ACH 221 - History of World Architecture: Ancient to Medieval 3 *credit hours* **OR**
- ACH 222 - History of World Architecture: Renaissance to Present 3 *credit hours*

Biological and Physical Sciences: 4 credits

- BIO 113 - Sustainable Horticulture 4 *credit hours*

Mathematics: 3 credits

- MAT 145 - Precalculus 1 3 *credit hours*

Social and Behavioral Sciences: 3 credits

- SOC 111 - Introduction to Sociology 3 *credit hours*

Additional General Education electives: 3 credits

- CTA 100 - Computing and Information Technology 3 *credit hours* **OR**
- CTP 103 - Theories and Applications of Digital Technology 3 *credit hours*

Program Requirements: 38 credits

- ACH 111 - Graphic Communication 1: Composition and Delineation 3 *credit hours*
- ACH 121 - Construction Technology 1 3 *credit hours*
ACH 111 and ACH 121 are corequisites.
- ACH 112 - Graphic Communication 2: Design and Representation 3 *credit hours*
- ACH 113 - Analysis of the Built Environment 3 *credit hours*
- ACH 114 - History of Contemporary Landscape Design 3 *credit hours*
- ACH 115 - Introduction to Landscape Architecture 4 *credit hours*
- ACH 116 - Landscape Architecture: System and Design 4 *credit hours*
- ACH 117 - Landscape Architecture: Plant Identification 3 *credit hours*
- ACH 118 - Landscape Architecture: Materials of Construction 3 *credit hours*
- ACH 242 - Environmental Systems for Design 3 *credit hours*
- ACH 245 - Digital Technologies 1 3 *credit hours*
- CAD Elective (chosen from list)

CAD Elective (computer aided-design)

Choose one from the following courses:

- ACH 255 - Digital Technologies 2 3 *credit hours*
- ACH 265 - Digital Studio 3 *credit hours*
- ACH 213 - Building Information Modeling 3 *credit hours*
- ACH 271 - Advanced Building Information Modeling 3 *credit hours*

Diversity Requirement

General educational requirement SOC 111 meets this requirement.

Technology Requirement

General education requirement CTA 100 or CTP 103 meets this requirement.

Wellness Requirement

Satisfied by ACH 242.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this degree program, students will be able to:

1. Define and apply a design process for solving design problems.
2. Demonstrate analytical skills inclusive of environmental, socio-political, health and safety, and sustainable influences and relationships.
3. Use technical skills, methods, and technologies common to the Landscape Architecture Profession.
4. Construct oral, written, and visual communications common to the Landscape Architecture Profession.
5. Express Landscape Architecture as a profession with regards to practices, values, and ethics.
6. Identify and use Landscape Architecture Historical precedents, theory, and research.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Architecture and Interior Design (A.A.S.) (*Architecture concentration or Interior Design concentration*)
- Architecture and Interior Design - Landscape Design (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Architecture and Interior Design (A.A.S.)

Official Titles of Major: Architecture and Interior Design - Architecture, A.A.S. *and* Architecture and Interior Design - Interior Design, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: The degree prepares students for further study in the field of architecture and interior design while also preparing students to enter the workforce directly. There are two areas of concentration; Architecture and Interior Design.

Areas of Concentration: This degree requires that students choose a concentration in one of two areas. A concentration is a structured plan of study within a degree program. The number of credit hours and particular course requirements for a concentration may vary, as listed below. To achieve a concentration, students must receive credit for every course requirement listed under that concentration.

Two Concentrations:

1. Architecture (code AAS.ACH.ID-ARCH):

Specific skills are developed in preparation of contract documents, theory analysis and design presentation, computer-aided drafting and design (CAD), building information modeling (BIM), building materials and techniques of construction. Includes specific study in sustainable and high performance design based on the LEED (Leadership in Energy and Environmental Design) system through the United States Green Building Council. The concentration teaches how to apply technology to the design process and enables graduates to seek employment within the architectural design and the construction industries. Credits may be transferred to schools offering bachelors and master's degrees in architecture. See department chair regarding specific architecture school requirements and departmental transfer agreements.

Range of Occupations

- Architect's field representative
- Architectural designer
- Architectural drafter
- CAD (computer-aided design) operator
- Construction manager
- Estimator
- Manufacturer's representative
- Specification writer

2. Interior Design (code AAS.ACH.ID-INT-DSGN):

Prepares students in the field of interior design while developing essential skills required in the workforce. Program focuses on both residential and commercial aspects of design and construction such as, illustration, color, lighting, textiles, finishes and furnishings. Equips students with employable skills in research, client relations, programming, contract documentation, design analysis, presentation, CAD (computer aided design), BIM (building information modeling) and interior material specifications. In addition to both the creative and functional aspects of design the program focuses on health, safety and welfare issues required by the industry. These issues include sustainable design based on the LEED system (Leadership in Energy and Environmental Design), ADA (The Americans with Disability Act) and human factors in design such as anthropometrics, ergonomics and color psychology. See department chair regarding specific college and university requirements and department transfer agreements. Program satisfies the minimum credit requirements for ASID (American Society of Interior Designers) allied or professional membership. Also satisfies the minimum educational requirement for NCIDQ (National Council for Interior Design Qualification) certification. Provides pathways to industry required internships, entry level positions and the advanced certificate options.

Range of Occupations

- Interior design intern
- Entry level staff designer
- Furniture designer
- Interior construction or remodeling consultant
- Industry sales representative
- Facilities planner
- Architectural representative
- Interior/Architectural CAD operator
- Specialty interiors consultant
- Marketing and promotion

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 21 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*

AND

- ENG 102 - Academic Writing and Research 2 3 credit hours
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

Architecture Area of Concentration:

This 3-credit Arts and Humanities General Education Requirement is satisfied by ACH 221 or ACH 222 .

Interior Design Area of Concentration:

This 3-credit Arts and Humanities General Education Requirement is satisfied by ART 125.

Biological and Physical Sciences: 3 credits

Recommend PHY 111 - Fundamentals of Physics 1 for Architecture students and PHY 120 - Sound and Light - An Interdisciplinary Approach for Interior Design students. See General Education Biological and Physical Sciences Requirements for a list of other approved courses.

Mathematics: 3 credits

Architecture Area of Concentration:

- MAT 145 - Precalculus 1 3 credit hours

Interior Design Area of Concentration:

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- SOC 111 - Introduction to Sociology 3 credit hours

Additional General education electives: 3 credits

- CTA 100 - Computing and Information Technology 3 credit hours
- CTP 103 - Theories and Applications of Digital Technology 3 credit hours

Program Requirements: 39 credits

These are common program requirements for both areas of concentration.

- ACH 111 - Graphic Communication 1: Composition and Delineation 3 credit hours
- ACH 121 - Construction Technology 1 3 credit hours
ACH 111 and ACH 121 are corequisites.
- ACH 112 - Graphic Communication 2: Design and Representation 3 credit hours
- ACH 242 - Environmental Systems for Design 3 credit hours
- ACH 245 - Digital Technologies 1 3 credit hours

Students must select one Area of Concentration in Architecture or Interior Design as specified below: 24 credit hours

Architecture Area of Concentration Requirements: 24 credits

Degree Awarded: Architecture and Interior Design - Architecture

(AAS.ACH.ID-ARCH)

- ACH 122 - Construction Technology 2 3 *credit hours*
 - ACH 211 - Architectural Studio 1: Form, Space and Order 4 *credit hours*
 - ACH 212 - Architectural Studio 2: Design and Synthesis 4 *credit hours*
 - ACH 221 - History of World Architecture: Ancient to Medieval 3 *credit hours* *
- OR**
- ACH 222 - History of World Architecture: Renaissance to Present 3 *credit hours* *
- *ACH 221 or ACH 222 is a program requirement for Fast Track Students. These courses simultaneously satisfy the Arts and Humanities and Program Requirements.
- ACH 231 - Professional Practices in Architecture 3 *credit hours*
 - ACH 240 - Construction Documentation 4 *credit hours*
 - CAD Elective (chosen from list below)
 - ACH History Elective (chosen from list below)

CAD Elective (computer-aided design)

Choose one from the following courses:

- ACH 255 - Digital Technologies 2 3 *credit hours*
- ACH 265 - Digital Studio 3 *credit hours*
- ACH 213 - Building Information Modeling 3 *credit hours*
- ACH 271 - Advanced Building Information Modeling 3 *credit hours*
- ART 154 - 3D Computer Graphics 3 *credit hours*
- ENT 242 - Advanced Computer-Aided Drafting and Design 3 *credit hours*

ACH History Elective

Required for both regular and Fast Track students. Choose one of the following courses:

- ACH 221 - History of World Architecture: Ancient to Medieval 3 *credit hours*
If not used for program requirement above
- ACH 222 - History of World Architecture: Renaissance to Present 3 *credit hours*
If not used for program requirement above
- ACH 262 - Architectural Travel Study 1 3 *credit hours*
- ACH 263 - Architectural Travel Study 2 3 *credit hours*

Interior Design Area of Concentration Requirements: 24 credits

Degree Awarded: Architecture and Interior Design, A.A.S. - Interior Design Concentration

(AAS.ACH.ID-INT-DSGN)

- ACH 100 - Introduction to Interior Design 1 *credit hour*
- ACH 101 - Kitchen and Bath Fundamentals 1 *credit hour*
- ACH 104 - Interior Finishes and Applications 3 *credit hours*
- ACH 105 - Textiles and Textile Applications 3 *credit hours*
- ACH 106 - Interior Design Studio 3 *credit hours*
- ACH 201 - History of Interior Design 3 *credit hours*
- ACH 202 - Space Planning 3 *credit hours*

- ACH 204 - Interior Construction Detailing 3 *credit hours*
- Interior Design Capstone Studio (chosen from list below)

Interior Design Capstone Studio

Choose one course from the list below:

- ACH 203 - Commercial Design Studio 4 *credit hours*
- ACH 205 - Residential Studio 4 *credit hours*
- ACH 206 - Kitchen and Bath Design 4 *credit hours*

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Satisfied by CTA 100 or CTP 103.

Wellness Requirement

Satisfied by ACH 242

Fast Track Option

These associate degree programs have Fast Track Options for those holding a college degree.

Program Outcomes

Upon successful completion of the Architecture Area of Concentration, students will be able to:

1. Design an architectural solution using principles and elements of design such as proportion, scale, movement, pattern, rhythm, symmetry, balance, contrast, theme, and unity.
2. Present design solutions visually and orally and be able to defend decisions to individuals and groups.
3. Assemble building materials and systems.
4. Apply the architectural design and construction process.
5. Use industry appropriate software and apply technology such as two and three dimensional design software.
6. Identify and apply regulatory requirements relevant to planning and executing architectural design and construction.
7. Respond effectively to environmental, health, safety and welfare issues during the architectural design and construction process.

Upon successful completion of the Interior Design Area of Concentration, students will be able to:

1. Design an interior space using the principles of design such as scale, proportion, balance, rhythm, emphasis and harmony.
2. Design an interior space using the elements of design such as space, shape, form, mass, line, texture, pattern, light and color.
3. Implement the principles and elements of design when addressing preset client criteria.
4. Apply stylistic elements to period design.
5. Present design solutions visually and orally and be able to defend decisions to individuals and groups.
6. Develop interior design presentations using a variety of formats.
7. Discuss how interior designer professionals develop design solutions.
8. Use industry appropriate software and apply technology such as two and three dimensional design software.
9. Identify and apply regulatory requirements relevant to planning and executing the interior design process.
10. Respond effectively to environmental, health, safety and welfare issues during the interior design process.

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Architecture and Interior Design - Landscape Design (A.A.S.)
- Architecture and Interior Design - Architectural CAD (certificate)
- Architecture and Interior Design - Architectural Illustration (certificate)
- Architecture and Interior Design - Advanced Interior Design (certificate)
- Architecture and Interior Design - Interior Design (certificate)
- Production Design (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Architecture and Interior Design - Advanced Interior Design (certificate)

Official Title of Certificate: Architecture and Interior Design - Advanced Interior Design, Certificate

Award: Certificate

Code: CRT.ACH.INT-DSN-ADV

Total Credit Hours: 33-34

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: Prepares students working in the field of interior design by further developing essential skills required in the workforce. Builds on the Interior Design AAS degree by addressing advanced design aspects of interior design. Strengthens aesthetic, analytical and technical skills within the design process. Advances knowledge through concentrated studies in design history, structural and nonstructural materials, sustainable design, construction drawings, codes, regulations, business practices, lighting and illustration. Includes specific studies in sustainable and high performance design based on the LEED (Leadership in Energy and Environmental Design) system through the USGBC (United States Green Building Council) and its role in the built environment. Projects focus on research, writing and graphic presentation skills with a strong emphasis on real-life design experiences as well as theory.

Offers an NKBA (National Kitchen and Bath Association) directed pathway for kitchen and bath design. Provides specific coursework that can benefit those already in the workforce. Prepares students to qualify as candidates for certification as an interior designer in the state of Maryland through NCIDQ (National Council for Interior Design Qualification) certification preparation. This certificate is not a substitute for state certification. Credits may be transferred to schools offering a bachelor's degree in interior design.

Range of Occupations

- Commercial designer
- Facilities design and management
- Hospitality designer
- Interior design manager
- Kitchen and bath designer
- Project manager
- Sustainable designer

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance

Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 33-34 credits

- ACH 202 - Space Planning *3 credit hours*
- ACH 205 - Residential Studio *4 credit hours*
- ACH 206 - Kitchen and Bath Design *4 credit hours*
- ACH 207 - Portfolio and Visual Presentation for Interior Design *3 credit hours*
- ACH 208 - History of Ornament, Textiles and Color *3 credit hours*
- ACH 209 - Lighting for Interior Design *3 credit hours*
- ACH 213 - Sustainable Interiors *3 credit hours*
- ACH 214 - Professional Practices in Interior Design *3 credit hours*

Option (Advanced Interior Design or Kitchen and Bath): 7-8 credits

Advanced Interior Design option courses:

- ACH 210 - Advanced Commercial Studio *4 credit hours*
- ACH 215 - Interior Design Standards *3 credit hours*

Kitchen and Bath option courses:

- ACH 226 - Advanced Kitchen and Bath Design *4 credit hours*
- ACH 235 - Computer Applications for Kitchen and Bath Design *1 credit hour*
- ACH 275 - Internship in Architecture and Interior Design *1 3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Assemble interior design materials and/or systems.
- Use appropriate technology.
- Follow building codes.
- Address environmental, health safety and welfare issues.
- Present visually and orally.
- Apply legal and professional requirements to interior design.
- Simulate the interior design and installation process.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Architecture and Interior Design - Interior Design (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Architecture and Interior Design - Architectural CAD (certificate)

Official Title of Certificate: Architecture and Interior Design, Architectural CAD, Certificate

Award: Certificate

Code: CRT.ACH.CAD

Total Credit Hours: 27-28

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: Training for employment as a computer-aided design (CAD) operator and architectural technician. Emphasizes computer delineation of building materials as they pertain to the detailing of residential and commercial buildings.

Range of Occupations

- Architectural technician
- CAD (computer-aided design) operator

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 27-28 credits

- ACH 111 - Graphic Communication 1: Composition and Delineation 3 *credit hours*
ACH 111 and ACH 121 are co-requisites
- ACH 121 - Construction Technology 1 3 *credit hours*
ACH 111 and ACH 121 are co-requisites
- ACH 104 - Interior Finishes and Applications 3 *credit hours* **OR**
- ACH 122 - Construction Technology 2 3 *credit hours*
- ACH 240 - Construction Documentation 4 *credit hours* **OR**
- ACH 204 - Interior Construction Detailing 3 *credit hours*
- ACH 245 - Digital Technologies 1 3 *credit hours*
- CTA 100 - Computing and Information Technology 3 *credit hours* **OR**
- CTP 103 - Theories and Applications of Digital Technology 3 *credit hours*

Electives (CAD): 9 credits

Choose from

- ACH 255 - Digital Technologies 2 3 *credit hours*
- ACH 265 - Digital Studio 3 *credit hours*
- ACH 213 - Building Information Modeling 3 *credit hours*
- ACH 271 - Advanced Building Information Modeling 3 *credit hours*
- ART 154 - 3D Computer Graphics 3 *credit hours*
- ENT 242 - Advanced Computer-Aided Drafting and Design 3 *credit hours*

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Architecture and Interior Design - Architectural Illustration (certificate)

Official Title of Certificate: Architecture and Interior Design - Architectural Illustration, Certificate

The Maryland Higher Education Commission records the title of this certificate as Architectural Illustration, Certificate.

Award: Certificate

Code: CRT.ACH.ILLUSTRATION

Total Credit Hours: 28

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: Teaches presentation techniques used in professional architectural rendering. Emphasizes the artistic side of architecture with an emphasis on various drawing techniques.

Range of Occupations

- Architectural draftsman
- Architectural renderer
- Illustrator

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 29 credits

- ACH 111 - Graphic Communication 1: Composition and Delineation 3 *credit hours*
- ACH 112 - Graphic Communication 2: Design and Representation 3 *credit hours*
ACH 111 and ACH 121 are corequisites.
- ACH 121 - Construction Technology 1 3 *credit hours*
- ACH 122 - Construction Technology 2 3 *credit hours*
ACH 111 and ACH 121 are corequisites.
- ACH 211 - Architectural Studio 1: Form, Space and Order 4 *credit hours*
- ACH 245 - Digital Technologies 1 3 *credit hours*
- ART 103 - Color 3 *credit hours*
- ART 125 - Drawing 1 3 *credit hours*
- CTA 100 - Computing and Information Technology 3 *credit hours* **OR**
- CTP 103 - Theories and Applications of Digital Technology 3 *credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Apply a wide variety of techniques associated with delineating architectural design including the use of appropriate tools and technology.
- Apply common symbols, materials, scales, and terminology used in architectural design and illustration.
- Create architectural designs and models using a variety of techniques and technologies.
- Deliver written and oral presentations that explain and justify architectural plans or models to a professional audience.
- Apply construction technology concepts to the development of architectural plans and models.
- Describe environmental and regulatory factors affecting building design.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Architecture and Interior Design - Construction Management (certificate)

Official Title of Certificate: Architecture and Interior Design - Construction Management, Certificate

Award: Certificate

Code: CRT.ACH.CSTN-MGMT

Total Credit Hours: 36

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: Teaches skills in the area of construction project management, construction estimating, materials and methods of construction and construction documentation. Credits may be transferred toward an Associate of Applied Science degree in architecture and interior design, or to schools offering a bachelor's degree in building construction or construction management. See advisors regarding specific requirements.

Range of Occupations

- Construction manager
- Estimator
- Foreman
- Inspector
- Owner's field representative
- Project manager
- Superintendent

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 36 credits

- ACH 111 - Graphic Communication 1: Composition and Delineation 3 *credit hours*
ACH 111 and ACH 121 are corequisites.
- ACH 121 - Construction Technology 1 3 *credit hours*
- ACH 122 - Construction Technology 2 3 *credit hours*

ACH 111 and ACH 121 are corequisites.

- ACH 216 - Construction Management 4 credit hours
- ACH 218 - Construction Operations 4 credit hours
- ACH 219 - Construction Contract Administration 3 credit hours
- ACH 230 - Cost Estimating for Construction 4 credit hours
- ACH 242 - Environmental Systems for Design 3 credit hours
- ACH 245 - Digital Technologies 1 3 credit hours
- BPA 142 - Principles of Management 3 credit hours

- CTA 100 - Computing and Information Technology 3 credit hours **OR**
- CTP 103 - Theories and Applications of Digital Technology 3 credit hours

Program Outcomes

Upon successful completion of this program, students will be able to:

- Interpret single and multi-view drawings.
- Explain aspects of the construction process in written, graphic, and oral form.
- Assemble building materials and/or systems.
- Practice appropriate technology used in the construction process.
- Apply building codes and regulations in the construction process.
- Assess environmental, health, safety, and welfare issues in different construction contexts.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Construction Management (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Architecture and Interior Design - Construction Management Entrepreneurship (certificate)

Official Title of Certificate: Architecture and Interior Design - Construction Management Entrepreneurship, Certificate

Award: Certificate

Code: CRT.ACH.CSTN-ENTREP

Total Credit Hours: 35

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: This certificate is designed to prepare students to launch and operate their own construction venture or take a leadership role in an existing construction firm or related business. The construction industry is one of the four critical workforce areas identified by the Maryland Department of Labor. A certificate in construction management entrepreneurship provides you with the skills to start your own construction venture, work with others to identify business opportunities, join entrepreneurial ventures, or work for an established construction firm or related business. Construction Management Entrepreneurship students are often in demand by growth-oriented companies wanting to incorporate entrepreneurial vision and innovation in their construction related organizations and by companies seeking individuals who have the ability to solve problems creatively and improve productivity. Regardless of size, all

businesses need managers who can identify opportunities, obtain resources, plan, organize, direct and control work to accomplish business objectives.

Topics covered during course work include: entrepreneurial thinking and opportunity recognition, developing a business plan, obtaining resources, managing finances, strategic planning, selecting managers and employees, organizing and designing the business, identifying and capitalizing on opportunities, managing technology, successfully dealing with managerial challenges and knowledge of the construction field. In addition, this program will provide students with essential skills and content in construction management, construction operations, construction materials and methods/building assemblies, construction document reading and interpretation, estimating, bidding, contract award/negotiation, construction contract administration, mobilization and procurement of construction resources, scheduling, risk management, project closeout and turnover. Students will learn to use this knowledge as it relates to operating a successful and profitable business.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 35 credits

- ACH 111 - Graphic Communication 1: Composition and Delineation 3 *credit hours*
ACH 111 and ACH 121 are corequisites.
- ACH 121 - Construction Technology 1 3 *credit hours*
- ACH 122 - Construction Technology 2 3 *credit hours*
ACH 111 and ACH 121 are corequisites.
- ACH 216 - Construction Management 4 *credit hours*
- ACH 218 - Construction Operations 4 *credit hours*
- ACH 230 - Cost Estimating for Construction 4 *credit hours*
- ESI 103 - Introduction to Entrepreneurship 3 *credit hours*
- ESI 104 - Entrepreneurship: Sales & Marketing for Small Business 3 *credit hours*
- ESI 270 - Entrepreneurship: New Venture Planning 3 *credit hours*
- BPA 217 - Small Business Accounting 3 *credit hours*
(formerly listed as ESI 217 - Small Business Accounting)
- LGS 250 - Legal Issues for Business 3 *credit hours*
(formerly crosslisted as ESI 250 - Legal Issues for Business)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Architecture and Interior Design - Interior Design (certificate)

Official Title of Certificate: Architecture and Interior Design - Interior Design, Certificate

Award: Certificate

Code: CRT.ACH.INT-DSGN

Total Credit Hours: 29

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: Develop both aesthetic vision and technical skills to formulate design solutions for residential and commercial interior environments. The program provides an understanding of the design process from client needs, programming, schematic design, design development and product specification, through final presentation. The program helps the students develop basic knowledge of codes, regulations, health, safety, and welfare issues affecting the human environment. This program also provides pathways toward entry-level positions in interior design or allied fields. This program is ideal for students seeking ASID (American Society of Interior Designers) allied membership. Credits earned may be applied to the Interior Design associate of applied science degree or the advanced interior design certificate.

Range of Occupations

- Artwork and accessory representative
- Consultant for home decorating center
- Design assistant for residential or architectural studios
- Event planner
- Home staging
- Interior color consultant
- Interior decorator
- Manufacturer's representative for interior industry
- Sales representative for furniture and fabrics

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 29 credits

- ACH 100 - Introduction to Interior Design *1 credit hour*
- ACH 101 - Kitchen and Bath Fundamentals *1 credit hour*
- ACH 104 - Interior Finishes and Applications *3 credit hours*
- ACH 105 - Textiles and Textile Applications *3 credit hours*
- ACH 106 - Interior Design Studio *3 credit hours*
- ACH 111 - Graphic Communication 1: Composition and Delineation *3 credit hours*
ACH 111 and ACH 121 are corequisites.
- ACH 121 - Construction Technology 1 *3 credit hours*
ACH 111 and ACH 121 are corequisites.
- ACH 201 - History of Interior Design *3 credit hours*
- ACH 202 - Space Planning *3 credit hours*
- ACH 245 - Digital Technologies 1 *3 credit hours*
- CTA 100 - Computing and Information Technology *3 credit hours*
OR
- CTP 103 - Theories and Applications of Digital Technology *3 credit hours*

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Architecture and Interior Design (A.A.S.)
- Architecture and Interior Design - Advanced Interior Design (certificate)

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Architecture and Interior Design - Landscape Design (certificate)

Official Title of Certificate: Architecture and Interior Design - Landscape Design, Certificate

The Maryland Higher Education Commission records the title of this certificate as Landscape Design, Certificate.

Award: Certificate

Code: CRT.ACH.LAND-DSGN

Total Credit Hours: 25

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: Training for employment as a drafter and technical assistant within the landscape design industry.

Range of Occupations

- Landscape drafter
- Garden design assistant
- Landscape design renderer

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 25 credits

- ACH 111 - Graphic Communication 1: Composition and Delineation *3 credit hours*
- ACH 112 - Graphic Communication 2: Design and Representation *3 credit hours*
- ACH 113 - Analysis of the Built Environment *3 credit hours*
- ACH 115 - Introduction to Landscape Architecture *4 credit hours*
- **OR**
- ACH 116 - Landscape Architecture: System and Design *4 credit hours*
- ACH 121 - Construction Technology 1 *3 credit hours*
ACH 111 and ACH 121 are corequisites.
- ACH 245 - Digital Technologies 1 *3 credit hours*
- CTA 100 - Computing and Information Technology *3 credit hours*
- **OR**
- CTP 103 - Theories and Applications of Digital Technology *3 credit hours*

- BIO 215 - Restoration Ecology 3 credit hours

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Identify and apply a design process to solve design problems.
2. Discuss the influence of environmental, socio-political, health and safety, and sustainability issues on the Landscape Architecture Profession.
3. Use technical skills, methods, and technologies common to the Landscape Architecture Profession.
4. Construct oral, written, and visual communications common to the Landscape Architecture Profession.
5. Express Landscape Architecture as a profession with regards to practices, values, and ethics.
6. Recognize and apply Landscape Architecture Historical precedents, theory, and research.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Architecture and Interior Design - Landscape Design (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Astronomy (A.S.)

Official Title of Major: Arts and Sciences Transfer - Astronomy, A.S.

Award: Associate of Science degree, A.S.

Code: AS.ARTS-SCLAST

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Physical Science Department

Purpose: This program provides the foundation for study of and entry into astronomy programs at four-year institutions.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 33 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 *3 credit hours*
- ENG 102 - Academic Writing and Research 2 *3 credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course *3 credit hours*
- Sophomore Literature course *3 credit hours*

Biological and Physical Sciences: 8 credits

- PHY 211 - General Physics 1 *4 credit hours* **AND**
- AST 112 - Stars and Stellar Systems *4 credit hours*
OR
- AST 114 - The Solar System *4 credit hours*

Mathematics: 4 credits

- MAT 191 - Calculus and Analytic Geometry 1 *4 credit hours*

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) *3 credit hours* **AND**
Students must choose **one** History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations *3 credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations *3 credit hours*
- HIS 113 - World Civilizations to 1500 *3 credit hours*
- HIS 114 - World Civilizations Since 1500 *3 credit hours*
- HIS 211 - United States History through the Civil War *3 credit hours*
- HIS 212 - United States History Since the Civil War *3 credit hours*
- HIS 214 - African American History *3 credit hours*

Additional General Education Requirements: 3 credits

- **Wellness Requirements** *3 credit hours*

Refer to General Education Wellness Requirements for list of approved courses.

Area of Concentration Requirements: 27 credits

- MAT 192 - Calculus and Analytic Geometry 2 *4 credit hours*

- MAT 201 - Calculus and Analytic Geometry 3 4 credit hours
- MAT 202 - Linear Algebra 4 credit hours

OR

- MAT 212 - Differential Equations 4 credit hours
- PHY 212 - General Physics 2 4 credit hours
- PHY 213 - General Physics 3 4 credit hours
- **Electives (consult with an advisor) 7 credit hours**

One of the electives must be used to satisfy the technology requirement if it has not been demonstrated otherwise.

See Technology Requirement for a list of approved courses. Other recommended courses include additional AST courses.

No more than 3 credits of physical activity courses may be used as electives.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of the General Education Requirements listed below: (1) the Communication Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214.)

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and solve problems by applying discipline-appropriate quantitative tools, concepts, and methods.
2. Investigate physical phenomena experimentally, using discipline-specific tools and methodology.
3. Apply discipline-specific lab safety rules.
4. Apply knowledge of discipline-specific fundamental concepts to explain experimental outcomes or real world phenomena.
5. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Chemistry (A.S.)

Official Title of Major: Arts and Sciences Transfer - Chemistry, A.S.

Award: Associate of Science degree, A.S.

Code: AS.ARTS-SCI.CHE

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Chemistry Department

Purpose: Prepares students for transfer to four-year institutions offering Bachelor of Science degrees in various professional disciplines including chemistry and pharmacy.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 33 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 8 credits

- CHE 111 - General Chemistry 1 4 *credit hours*
- CHE 112 - General Chemistry 2 4 *credit hours*

Mathematics: 4 credits

- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) 3 *credit hours* **AND**
Students must choose **one** History course from the following:

- HIS 111 - Ancient and Medieval Western Civilizations 3 credit hours
- HIS 112 - Early Modern and Modern Western Civilizations 3 credit hours
- HIS 114 - World Civilizations Since 1500 3 credit hours
- HIS 113 - World Civilizations to 1500 3 credit hours
- HIS 211 - United States History through the Civil War 3 credit hours
- HIS 212 - United States History Since the Civil War 3 credit hours
- HIS 214 - African American History 3 credit hours

Additional General Education Requirements: 3 credits

- **Wellness Requirements** 3 credit hours

Refer to General Education Wellness Requirements for a list of approved courses.

Area of Concentration Requirements: 27 credits

- CHE 213 - Organic Chemistry 1 4 credit hours
- CHE 214 - Organic Chemistry 2 4 credit hours
- MAT 192 - Calculus and Analytic Geometry 2 4 credit hours
- PHY 211 - General Physics 1 4 credit hours
- PHY 212 - General Physics 2 4 credit hours
- **Electives** (consult with an advisor) 7 credit hours
One of the electives must be used to satisfy the technology requirement if it has not been demonstrated otherwise. Refer to Technology Requirement for a list of approved courses. Other recommended courses include BIO 101 and PHY 213. No more than 3 credits of physical activity courses may be used as electives.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of the General Education Requirements listed below: (1) the Communication Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214.)

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and solve problems by applying discipline-appropriate quantitative tools, concepts, and methods.
2. Investigate physical phenomena experimentally, using discipline-specific tools and methodology.
3. Apply discipline-specific lab safety rules.
4. Apply knowledge of discipline-specific fundamental concepts to explain experimental outcomes or real world phenomena.
5. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Cinematic Arts (A.A.)

Official Title of Major: Arts and Sciences - Cinematic Arts (A.A.)

Award: Associate of Arts degree, A.A.

Code: AA.ARTS-SCI.CIN-ARTS

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Cinematic Arts Program

Purpose: For students interested in pursuing professional training, transferring to a four-year institution or gaining personal enrichment by concentrating in film study and the production of the moving image.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of General Education Requirements listed below: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

General Education Requirements: 31 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours

- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Students must choose one Mathematics course from the following:

- MAT 133 - Finite Mathematics 3 *credit hours*
- MAT 135 - Statistics 3 *credit hours*
- Or more advanced level if qualified from the list below:
- MAT 137 - College Algebra 3 *credit hours*
- MAT 145 - Precalculus 1 3 *credit hours*
- MAT 146 - Precalculus 2 3 *credit hours*
- MAT 151 - Accelerated Precalculus 4 *credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 4 *credit hours*
- MAT 202 - Linear Algebra 4 *credit hours*
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 *credit hours*

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) 3 *credit hours* **AND**
Students must choose one History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations 3 *credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations 3 *credit hours*
- HIS 113 - World Civilizations to 1500 3 *credit hours*
- HIS 114 - World Civilizations Since 1500 3 *credit hours*
- HIS 211 - United States History through the Civil War 3 *credit hours*
- HIS 212 - United States History Since the Civil War 3 *credit hours*
- HIS 214 - African American History 3 *credit hours*

Additional General Education Requirements: 3 credits

- **Wellness Requirement** 3 *credit hours*

Refer to General Education Wellness Requirement for a list of approved courses.

Area of Concentration 29 credits

Required Courses: 18 credits

- ART 160 - Video 1 3 credit hours
- ART 161 - Video Editing 3 credit hours
- ART 180 - Introduction to Film 3 credit hours
- ART 181 - Introduction to American Film 3 credit hours
- ART 218 - Creative Writing: Writing for the Stage and Screen Workshop 3 credit hours
- ART 215 - Notable Film Directors 3 credit hours
- OR**
- ART 216 - Independent Film 3 credit hours
- OR**
- ART 260 - Video 2 3 credit hours

Choose one of the following: 3 credits

- ART 112 - Introduction to Sound Design 3 credit hours
- ART 121 - Darkroom Photography 1: Black & White 3 credit hours
- ART 125 - Drawing 1 3 credit hours
- ART 209 - History of Western Art: Ancient to Medieval 3 credit hours
- ART 210 - History of Western Art: Renaissance to Present 3 credit hours
- ART 212 - History of Photography 3 credit hours

Technology Requirement: 3 credits

- ART 106 - Introduction to Digital Design 3 credit hours

Electives: 5 credits

Recommend students check on transfer institution's requirements. No more than 3 credits of physical activity courses may be used as elective.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by ART 106.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the value of tradition, innovation, and creativity in understanding and participating in expression through film.
2. Produce and refine audio and visual components of timed media through the use of current production technology.
3. Analyze the form and content of timed media and express it in writing.
4. Discuss the aesthetic and cultural history of timed media.

This program aligns with all the college's core competencies.

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Communications (A.A.)

Official Title of Major: Arts and Sciences Transfer - Communications, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.ARTS-SCI.COMM

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Communications Program

Purpose: Anne Arundel Community College's (AACC) Arts and Sciences Transfer Degree with a concentration in Communication is designed to help students transfer to colleges and universities that offer a baccalaureate degree with a major in speech communication, human communication, or mass communication.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Arts and Sciences Transfer Program Core Course Requirements

The core courses for this degree are simultaneously satisfied by three of General Education Requirements listed below: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours
- ENG 102 - Academic Writing and Research 2 3 credit hours
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course *3 credit hours*
- Sophomore Literature course *3 credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Students must choose one Mathematics course from the following:

- MAT 133 - Finite Mathematics *3 credit hours*
- MAT 135 - Statistics *3 credit hours*
OR More advanced level if qualified from the list below:
- MAT 137 - College Algebra *3 credit hours*
- MAT 145 - Precalculus 1 *3 credit hours*
- MAT 146 - Precalculus 2 *3 credit hours*
- MAT 151 - Accelerated Precalculus *4 credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 *4 credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 *4 credit hours*
- MAT 202 - Linear Algebra *4 credit hours*
- MAT 230 - Elementary Calculus (For Business and Social Sciences) *3 credit hours*

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) *3 credit hours* **AND**
Students must choose one History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations *3 credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations *3 credit hours*
- HIS 113 - World Civilizations to 1500 *3 credit hours*
- HIS 114 - World Civilizations Since 1500 *3 credit hours*
- HIS 211 - United States History through the Civil War *3 credit hours*
- HIS 212 - United States History Since the Civil War *3 credit hours*
- HIS 214 - African American History *3 credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** *3 credit hours*

Refer to General Education Technology Requirements for a list of approved courses.

- **Wellness Requirement** *3 credit hours*

Refer to General Education Wellness Requirements for a list of approved courses.

Area of Concentration: 26 credits

Students should check the requirements of their transfer school before selecting the courses listed below.

Required Courses: 9 credits

Choose an additional three courses (beyond the COM course used to satisfy the General Education Requirement) from the following list:

- COM 110 - Introduction to Interpersonal Communication 3 credit hours
- COM 111 - Fundamentals of Oral Communication 3 credit hours
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 credit hours
- COM 141 - Group Communication and Leadership 3 credit hours
- COM 200 - Intercultural Communication 3 credit hours
- COM 230 - Persuasive Message Strategies 3 credit hours

Choose one course from the following: 3 credits

- COM 101 - Introduction to Mass Media 3 credit hours
- COM 102 - Writing for News Media 1 3 credit hours
- COM 110 - Introduction to Interpersonal Communication 3 credit hours
- COM 111 - Fundamentals of Oral Communication 3 credit hours
- COM 112 - Newspaper Editing and Production 3 credit hours
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 credit hours
- COM 130 - Current Events in Global Context 3 credit hours
- COM 141 - Group Communication and Leadership 3 credit hours
- COM 200 - Intercultural Communication 3 credit hours
- COM 202 - Writing for the News Media 2 3 credit hours
- COM 230 - Persuasive Message Strategies 3 credit hours
- COM 240 - Introduction to Communication Theory 3 credit hours

Electives: 14 credits

Recommend students check on transfer institution's requirements. No more than three credits of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate complex messages through writing, speaking, and using technology.
2. Locate, organize, analyze, and appropriately cite information from credible sources in order to develop informed, well-reasoned, and substantiated arguments.

3. Exhibit effective listening skills and critically evaluate verbal and nonverbal messages.
4. Demonstrate knowledge of communication theory.
5. Recognize the influence of culture on messages and exhibit an awareness of ethics, diversity, inclusiveness, and equity.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Creative Writing (A.A.)

Official Title of Major: Arts and Sciences Transfer - Creative Writing, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.ARTS-SCI.CREAT-W

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Creative Writing Program

Purpose: Designed to provide students with an opportunity to develop as readers and writers. Prepares students for advanced study in creative writing. Students completing this degree will have developed a portfolio of original work (fiction, poetry or creative non-fiction) for submission to baccalaureate level (BA and/or BFA) writing programs as well as reputable journals. The comprehensive core of general education courses and specialized courses in creative writing will also prepare students for transfer to programs in related disciplines.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of the General Education Requirements listed below: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Students must choose one Mathematics course from the following:

- MAT 133 - Finite Mathematics 3 *credit hours*
OR
- MAT 135 - Statistics 3 *credit hours*
OR
 More advanced level if qualified from the list below:
- MAT 137 - College Algebra 3 *credit hours*
- MAT 145 - Precalculus 1 3 *credit hours*
- MAT 146 - Precalculus 2 3 *credit hours*
- MAT 151 - Accelerated Precalculus 4 *credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 4 *credit hours*
- MAT 202 - Linear Algebra 4 *credit hours*
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 *credit hours*

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) 3 *credit hours* **AND**
 Students must choose one History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations 3 *credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations 3 *credit hours*
- HIS 113 - World Civilizations to 1500 3 *credit hours*
- HIS 114 - World Civilizations Since 1500 3 *credit hours*
- HIS 211 - United States History through the Civil War 3 *credit hours*
- HIS 212 - United States History Since the Civil War 3 *credit hours*
- HIS 214 - African American History 3 *credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 *credit hours*

Refer to General Education Technology Requirements for a list of approved courses.

- **Wellness Requirement 3 credit hours**

Refer to General Education Wellness Requirements for a list of approved courses.

Area of Concentration: 26 credits

Required Courses: 5 credits

- ENG 200 - Introduction to Creative Writing 3 credit hours
- ENG 205 - Creative Writing: Portfolio Development 2 credit hours

Choose courses from the following list: 9 credits

Students should check the requirements of their transfer school before selecting the courses listed below.

- ENG 201 - Creative Writing: Beginning Fiction Workshop 3 credit hours
- ENG 202 - Creative Writing: Beginning Poetry Workshop 3 credit hours
- ENG 203 - Creative Writing: Writing for the Stage and Screen Workshop 3 credit hours
- ENG 204 - Creative Writing: Beginning Creative Nonfiction Workshop 3 credit hours
- ENG 275 - Creative Writing: Literary Publishing Practicum - Working on Amaranth 1 credit hour
- ENG 276 - Creative Writing: Literary Publishing Practicum - Working on Amaranth 2 credit hours
- ENG 277 - Creative Writing: Literary Publishing Practicum - Working on Amaranth 3 credit hours

Choose two courses from the following: 6 credits

Students should check the requirements of their transfer school before selecting the courses listed below.

- ENG 211 - World Literature 1 3 credit hours
- ENG 212 - World Literature 2 3 credit hours
- ENG 213 - British Literature 1 3 credit hours
- ENG 214 - British Literature 2 3 credit hours
- ENG 215 - Early American Literature: Colonial to 1865 3 credit hours
- ENG 216 - American Literature, 1865-1945: Realism to Modernism 3 credit hours
- ENG 217 - Contemporary American Literature: 1945-present 3 credit hours
- ENG 220 - The Bible as Literature 3 credit hours
- ENG 221 - Introduction to Shakespeare 3 credit hours
- ENG 222 - The American Novel 3 credit hours
- ENG 223 - The British Novel 3 credit hours
- ENG 224 - Modern American Poetry 3 credit hours
- ENG 225 - African American Literature 3 credit hours
- ENG 226 - Ethnic American Literature 3 credit hours
- ENG 227 - Literary Nonfiction 3 credit hours
- ENG 228 - Literature in English by Women 3 credit hours
- ENG 235 - Modern Drama 3 credit hours
- ENG 250 - Literature of the Chesapeake Bay 3 credit hours

Electives: 6 credits

Students should check the requirements of their transfer school before selecting elective courses. No more than 3 credits of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the diversity requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

The following Sophomore Literature courses satisfy the diversity requirement:

ENG 225 - African American Literature

ENG 226 - Ethnic American Literature

ENG 228 - Literature in English by Women

See Diversity Courses for a complete list of approved courses.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

1. Writing Creatively

Students will write imaginative literature, including poetry, fiction, stage and screen, creative nonfiction, and portfolio.

2. Employing Literary Craft

Students will employ a range of literary techniques appropriate to the genre: point of view, narrative pace, dialogue, figures of speech, metrical line, sound devices, etc.

3. Working Through the Writing Process

Students will draft, edit, revise and implement critiques from classmates and faculty into the revision process.

4. Peer Review

Students will critique peer work in a constructive and professional manner and employ a range of literary terms and techniques in discussion of their own writing and the writing of their peers.

5. Understanding the Writer's Profession

Students will establish disciplined writing habits, and attend or participate in literary events within the college and/or the larger community.

6. Complete Portfolios

Students will complete comprehensive portfolios that could include poetry, fiction, stage and screen or creative nonfiction.

7. Journal Production

Students will read, review, discuss, debate and select poetry, fiction, plays, nonfiction and artwork for the college journal of creative writing.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Dance (A.A.)

Official Title of Major: Arts and Sciences Transfer - Dance, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.ARTS-SCI.DANCE

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Dance Program

Purpose: For students interested in pursuing professional training, transferring to a four-year institution or gaining personal enrichment by concentrating in dance.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of the General Education Requirements listed below: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirements, and (3) one of the History courses in the Social and Behavioral Sciences general education requirement (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours
- ENG 102 - Academic Writing and Research 2 3 credit hours

ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course *3 credit hours*
- Sophomore Literature course *3 credit hours*

Biological and Physical Sciences: 7 credits

At least one laboratory science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Students must choose one Mathematics course from the following:

- MAT 133 - Finite Mathematics *3 credit hours*
OR
- MAT 135 - Statistics *3 credit hours*
Or more advanced level if qualified.

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) *3 credit hours* **AND**
Students must choose one History course from the following:
- HIS 112 - Early Modern and Modern Western Civilizations *3 credit hours*
- HIS 111 - Ancient and Medieval Western Civilizations *3 credit hours*
- HIS 113 - World Civilizations to 1500 *3 credit hours*
- HIS 114 - World Civilizations Since 1500 *3 credit hours*
- HIS 211 - United States History through the Civil War *3 credit hours*
- HIS 212 - United States History Since the Civil War *3 credit hours*
- HIS 214 - African American History *3 credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** *3 credit hours*

Refer to General Education Technology Requirements for a list of approved courses.

- **Wellness Requirement** *3 credit hours*

Refer to General Education Wellness Requirements for a list of approved courses.

Area of Concentration: 26 credits

Required Courses: 14 credits

- DAN 100 - Dance History *3 credit hours*
DAN 100 simultaneously satisfies the Diversity Requirement for this degree.
- DAN 125 - Improvisation *2 credit hours*
- DAN 240 - Dance Production *3 credit hours*

- MUS 101 - Music Fundamentals 3 *credit hours*
- THA 122 - Introduction to Stage Design and Lighting 3 *credit hours*

Choose four courses from the following: 8 credits

At least two courses must be selected from the 200 level.

- DAN 105 - Beginning Tap Dance 1 2 *credit hours*
- DAN 106 - Beginning Tap Dance 2 2 *credit hours*
- DAN 111 - Beginning Ballet 1 2 *credit hours*
- DAN 112 - Beginning Ballet 2 2 *credit hours*
- DAN 121 - Beginning Modern Dance 1 2 *credit hours*
- DAN 122 - Beginning Modern Dance 2 2 *credit hours*
- DAN 131 - Beginning Jazz Dance 1 2 *credit hours*
- DAN 132 - Beginning Jazz Dance 2 2 *credit hours*
- DAN 205 - Intermediate Tap Dance 1 2 *credit hours*
- DAN 206 - Intermediate Tap Dance 2 2 *credit hours*
- DAN 211 - Intermediate Ballet 1 2 *credit hours*
- DAN 212 - Intermediate Ballet 2 2 *credit hours*
- DAN 221 - Intermediate Modern Dance 1 2 *credit hours*
- DAN 222 - Intermediate Modern Dance 2 2 *credit hours*
- DAN 231 - Intermediate Jazz Dance 1 2 *credit hours*
- DAN 232 - Intermediate Jazz Dance 2 2 *credit hours*

World Language: 3 credits

See list of approved courses.

Elective: 1 Credit

Recommend students check on transfer institution's requirements. No more than 3 credits of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate complex ideas and information through writing, speaking, presenting, and using technology.
2. Locate, organize, and analyze information from multiple sources in order to develop informed, reasoned, and substantiated arguments.
3. Explain the value of tradition, innovation, and creativity in artistic expression.
4. Apply mathematical skills, critical analysis, and logical thinking to solve problems and interpret quantitative information.
5. Apply an awareness of social diversity and the ways in which cultural values are historically and socially situated.
6. Demonstrate a kinesthetic sense of awareness.
7. Describe using examples and/or demonstrations how dance is as an effective form of non-verbal communication.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Earth Science (A.S.)

Official Title of Major: Arts and Sciences Transfer - Earth Science, A.S.

Award: Associate of Science degree, A.S.

Code: AS.ARTS-SCIEARTH

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Department of Physical Science

Purpose: Prepares students for transfer to four-year institutions offering Bachelor of Science degrees in various professional disciplines and science programs.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 33 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course *3 credit hours*
- Sophomore Literature course *3 credit hours*

Biological and Physical Sciences: 8 credits

- CHE 111 - General Chemistry 1 *4 credit hours*
- PHS 113 - Physical Geology *4 credit hours*

Mathematics: 4 credits

- MAT 191 - Calculus and Analytic Geometry 1 *4 credit hours*

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) *3 credit hours* **AND**
Students must choose **one** History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations *3 credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations *3 credit hours*
- HIS 113 - World Civilizations to 1500 *3 credit hours*
- HIS 114 - World Civilizations Since 1500 *3 credit hours*
- HIS 211 - United States History through the Civil War *3 credit hours*
- HIS 212 - United States History Since the Civil War *3 credit hours*
- HIS 214 - African American History *3 credit hours*

Additional General Education Requirements: 3 credits

- **Wellness Requirements** *3 credit hours*

Refer to General Education Wellness Requirements for a list of approved courses.

Area of Concentration Requirements: 27 credits

- MAT 192 - Calculus and Analytic Geometry 2 *4 credit hours*
 - PHS 109 - General Oceanography *3 credit hours*
 - PHY 211 - General Physics 1 *4 credit hours*
 - PHY 212 - General Physics 2 *4 credit hours*
 - **Electives** *12 credit hours*
Suggested electives include:
 - MAT 202 - Linear Algebra *4 credit hours*
 - MAT 212 - Differential Equations *4 credit hours*
 - PHS 119 - Fundamentals of Weather *4 credit hours*
 - PHY 213 - General Physics 3 *4 credit hours*
- One of the electives must be used to satisfy the technology requirement if it has not been demonstrated otherwise. See Technology Requirement for a list of approved courses.*

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of General Education Requirements listed above: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general

education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and solve problems by applying discipline-appropriate quantitative tools, concepts, and methods.
2. Investigate physical phenomena experimentally, using discipline-specific tools and methodology.
3. Apply discipline-specific lab safety rules.
4. Apply knowledge of discipline-specific fundamental concepts to explain experimental outcomes or real world phenomena.
5. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - English (A.A.)

Official Title of Major: Arts and Sciences Transfer - English, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.ARTS-SCIENG

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the English Program

Purpose: Anne Arundel Community College's Arts and Science Transfer Degree with a concentration in English is designed to help students transfer to colleges and universities that offer a baccalaureate degree with a major in English and will transfer to all Maryland four-year public colleges. Students who study English at AACC will be challenged with taking a position and defending it with logic and reason. They will be taught to read analytically--to ask why--and to think critically and write persuasively. Since all of these skills transfer well to the job market, students who choose to pursue AACC's Arts and Sciences Transfer Degree with a concentration in English set themselves up not only for transfer to four-year schools but for eventual careers across a wide range of occupations including publishing, journalism, media, advertising, marketing, public relations, education, technical communication, government, human services, public policy, research, law, and business.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of the General Education Requirements listed below: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Students must choose one Mathematics course from the following:

- MAT 133 - Finite Mathematics 3 *credit hours*
- MAT 135 - Statistics 3 *credit hours*
Or more advanced level if qualified from the list below:

- MAT 137 - College Algebra 3 *credit hours*
- MAT 145 - Precalculus 1 3 *credit hours*
- MAT 146 - Precalculus 2 3 *credit hours*
- MAT 151 - Accelerated Precalculus 4 *credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 4 *credit hours*
- MAT 202 - Linear Algebra 4 *credit hours*
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 *credit hours*

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) 3 *credit hours* **AND**
Students must choose one History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations 3 *credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations 3 *credit hours*
- HIS 113 - World Civilizations to 1500 3 *credit hours*
- HIS 114 - World Civilizations Since 1500 3 *credit hours*
- HIS 211 - United States History through the Civil War 3 *credit hours*
- HIS 212 - United States History Since the Civil War 3 *credit hours*
- HIS 214 - African American History 3 *credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 *credit hours*

Refer to General Education Technology Requirements for a list of approved courses.

- **Wellness Requirement** 3 *credit hours*

Refer to General Education Wellness Requirements for a list of approved courses.

Area of Concentration: 26 credits

Required courses: 12 credits

From the following, choose an additional four courses in addition to the Sophomore Literature Course used to satisfy the Core Course Requirement. Students should check the requirements of their transfer school before selecting the courses listed below:

- ENG 211 - World Literature 1 3 *credit hours*
- ENG 212 - World Literature 2 3 *credit hours*
- ENG 213 - British Literature 1 3 *credit hours*
- ENG 214 - British Literature 2 3 *credit hours*
- ENG 215 - Early American Literature: Colonial to 1865 3 *credit hours*
- ENG 216 - American Literature, 1865-1945: Realism to Modernism 3 *credit hours*
- ENG 217 - Contemporary American Literature: 1945-present 3 *credit hours*
- ENG 220 - The Bible as Literature 3 *credit hours*
- ENG 221 - Introduction to Shakespeare 3 *credit hours*
- ENG 222 - The American Novel 3 *credit hours*
- ENG 223 - The British Novel 3 *credit hours*
- ENG 224 - Modern American Poetry 3 *credit hours*
- ENG 225 - African American Literature 3 *credit hours*

- ENG 226 - Ethnic American Literature 3 credit hours
 - ENG 227 - Literary Nonfiction 3 credit hours
 - ENG 228 - Literature in English by Women 3 credit hours
 - ENG 235 - Modern Drama 3 credit hours
 - ENG 250 - Literature of the Chesapeake Bay 3 credit hours
- For any one course in the list above, students may substitute one course from the following:
- ENG 160 - The Art and Science of Grammar 3 credit hours
 - ENG 161 - Introduction to Linguistics 3 credit hours
 - ENG 207 - Writing for Professionals 3 credit hours

Electives: 14 credits

Students are recommended to check on transfer institution's requirements before selecting electives. No more than 3 credits of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the diversity requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

The following Sophomore Literature courses satisfy the diversity requirement:

ENG 225 - African American Literature

ENG 226 - Ethnic American Literature

ENG 228 - Literature in English by Women

See Diversity Requirements for a list of approved courses.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate complex ideas and information through writing, speaking, presenting, and using technology.
2. Locate, organize, and analyze information from multiple sources in order to develop informed, reasoned, and substantiated arguments.
3. Explain the value of tradition, innovation, and creativity in understanding various forms of writing and communication.
4. Apply mathematical skills, critical analysis, and logical thinking to solve problems and interpret quantitative information.
5. Apply an awareness of social diversity and the ways in which cultural values are historically and socially situated.
6. Closely read, critically analyze, and interpret literary texts, with attention to language, form, convention, technique, and thematic content.
7. Analyze literature in its historical, cultural, and intellectual context.

8. Articulate the ways literature expands our understanding of abstract concepts, enduring questions, and the human experience.
9. Apply critical thinking skills, secondary source material, and methodologies appropriate to the field of literary studies.
10. Communicate reactions to and analyses of literature both orally and in writing.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Environmental Science (A.S.)

Official Title of Major: Arts and Sciences Transfer - Environmental Science, A.S.

Award: Associate of Science degree, A.S.

Code: AS.ARTS-SCIENV

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Biology Department

Purpose: Prepares students for transfer to four-year institutions offering Bachelor of Science degrees in various professional disciplines including environmental studies programs.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 35 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 *3 credit hours*
- ENG 102 - Academic Writing and Research 2 *3 credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course *3 credit hours*
- Sophomore Literature course *3 credit hours*

Biological and Physical Sciences: 8 credits

- BIO 101 - Foundations of Biology: Molecules and Cells *4 credit hours*
- BIO 104 - Foundations of Biology: Ecology and Evolution *4 credit hours*

Mathematics: 3 credits

- MAT 145 - Precalculus 1 *3 credit hours*
OR
More advanced level if qualified from the list below:
- MAT 146 - Precalculus 2 *3 credit hours*
- MAT 151 - Accelerated Precalculus *4 credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 *4 credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 *4 credit hours*
- MAT 202 - Linear Algebra *4 credit hours*
- MAT 230 - Elementary Calculus (For Business and Social Sciences) *3 credit hours*

Social and Behavioral Sciences: 6 credits

- SOC 111 - Introduction to Sociology *3 credit hours* **AND**
Students must choose **one** History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations *3 credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations *3 credit hours*
- HIS 113 - World Civilizations to 1500 *3 credit hours*
- HIS 114 - World Civilizations Since 1500 *3 credit hours*
- HIS 211 - United States History through the Civil War *3 credit hours*
- HIS 212 - United States History Since the Civil War *3 credit hours*
- HIS 214 - African American History *3 credit hours*

Additional General Education Requirements: 6 credits

- UAS 111 - Introduction to Drone Technology *3 credit hours*
Or refer to the General Education Technology Requirement for a list of other approved courses.
Wellness Requirement *3 credit hours*
Refer to General Education Wellness Requirement for a list of approved courses.

Area of Concentration Requirements: 25 credits

Required courses: 15 credits

- BIO 107 - Environmental Science *4 credit hours*
 - BIO 215 - Restoration Ecology *3 credit hours*
 - CHE 111 - General Chemistry 1 *4 credit hours*
 - CHE 112 - General Chemistry 2 *4 credit hours*
- Choose two courses from the following: 7-8 credits
- BIO 103 - General Botany *4 credit hours*
 - BIO 105 - General Zoology *4 credit hours*
 - BIO 210 - Ecological Principles and Environmental Assessment *4 credit hours*
 - BIO 214 - Ecology *3 credit hours*
 - PHS 113 - Physical Geology *4 credit hours*
 - PHS 120 - Global Climate Change *3 credit hours*
 - **Electives** (consult with an advisor) *2-3 credit hours*

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of General Education Requirements listed above: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Satisfied by UAS 111.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and solve problems by applying discipline-appropriate quantitative tools, concepts, and methods.
2. Investigate physical phenomena experimentally, using discipline-specific tools and methodology.
3. Apply discipline-specific lab safety rules.
4. Apply knowledge of discipline-specific fundamental concepts to explain experimental outcomes or real world phenomena.
5. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Gender and Sexuality Studies (A.A.)

Official Title of Major: Arts and Sciences - Gender and Sexuality Studies, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.ARTS-SCI.GSS

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Gender and Sexuality Studies Program

Purpose: To provide concentrated study of gender and sexuality within a larger liberal arts focus. This option is suitable for students who want to pursue a profession where the demonstration of specialized training in issues related to gender and sexuality is an asset, and/or for students who intend to transfer to a 4-year institution, but who have not decided on a specific major or career path and so prefer a interdisciplinary/multidisciplinary field of study. Because Gender and Sexuality Studies courses teach widely-applicable skills like critical thinking, problem solving, understanding other viewpoints, effective communication, and ethical decision making, this option is strong preparation for many career fields and for students who plan to pursue graduate or professional school degrees. The focus on issues of equity and inclusion make this option particularly useful for those who wish to work on social justice issues.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of the General Education Requirements listed below: (1) the Communication Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214.)

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Students must choose one Mathematics course from the following:

- MAT 133 - Finite Mathematics 3 *credit hours*

OR

- MAT 135 - Statistics 3 *credit hours*

OR

More advanced level if qualified from the list below:

- MAT 137 - College Algebra 3 *credit hours*
- MAT 145 - Precalculus 1 3 *credit hours*
- MAT 146 - Precalculus 2 3 *credit hours*
- MAT 151 - Accelerated Precalculus 4 *credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 4 *credit hours*
- MAT 202 - Linear Algebra 4 *credit hours*
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 *credit hours*

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) 3 *credit hours* **AND**
Students must choose one History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations 3 *credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations 3 *credit hours*
- HIS 211 - United States History through the Civil War 3 *credit hours*
- HIS 212 - United States History Since the Civil War 3 *credit hours*
- HIS 113 - World Civilizations to 1500 3 *credit hours*
- HIS 114 - World Civilizations Since 1500 3 *credit hours*
- HIS 214 - African American History 3 *credit hours*

Additional General Education Courses: 6 credits

- **Technology Requirement** 3 *credit hours*

Refer to General Education Technology Requirements for a list of approved courses.

- GSS 113 - Women's Health 3 *credit hours*

This course meets the Wellness Requirement.

Area of Concentration: 26 credits

Required courses: 6 credits

- GSS 101 - Introduction to Women's Studies 3 *credit hours*
- OR**
- GSS 102 - Introduction to Masculinity Studies 3 *credit hours*
 - GSS 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies 3 *credit hours*

Choose one course from the following: 3 credits

- GSS 169 - Music, Power and Gender 3 *credit hours*
- GSS 210 - Images of Women 3 *credit hours*
- GSS 211 - Gender and Mass Media in the United States 3 *credit hours*
- GSS 228 - Literature in English by Women 3 *credit hours*

Choose one course from the following: 3 credits

- GSS 213 - Marriage and the Family 3 credit hours
- GSS 215 - Psychology of Relationships 3 credit hours
- GSS 216 - Human Sexuality 3 credit hours
- GSS 221 - Psychology of Men 3 credit hours
- GSS 222 - Psychology of Women 3 credit hours
- GSS 223 - Philosophy and Gender 3 credit hours

GSS Electives: 6 credits

Students should check with GSS Coordinator to determine which course is most appropriate depending on the student's chosen transfer institution.

Electives: 8 credits

Students should check with GSS Coordinator to determine which course is most appropriate depending on the student's chosen transfer institution. No more than 3 credits of physical activity courses may be used as electives.

Diversity Requirement

Satisfied by GSS 101 or GSS 102.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Satisfied by GSS 113.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the significance of social diversity and the ways in which cultural values are historically and socially situated.
2. Explain the ways in which gender and sexuality intersect with race, ethnicity, class, dis/ability, religion, and other variables of identity.
3. Apply the concepts of structural inequality, power, privilege, and oppression to explain difference.
4. Explain the role of gender and sexuality in the construction of individual identities, interpersonal relationships, and social institutions.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - General Biology (A.S.)

Official Title of Major: Arts and Sciences Transfer - General Biology, A.S.

Award: Associate of Science degree, A.S

Code: AS.ARTS-SCI.BIO

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Biology Department

Purpose: This program provides preparation for entry into general biology, optometry, medical, dental, environmental, pharmaceutical, and veterinary programs at four-year institutions.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 35-36 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
Strongly recommend COM 111 or COM 116.
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 8 credits

- BIO 101 - Foundations of Biology: Molecules and Cells 4 *credit hours*
- BIO 104 - Foundations of Biology: Ecology and Evolution 4 *credit hours*

Mathematics: 3-4 credits

- MAT 145 - Precalculus 1 3 *credit hours*
OR
More advanced level if qualified from the list below.
- MAT 146 - Precalculus 2 3 *credit hours*
- MAT 151 - Accelerated Precalculus 4 *credit hours*

- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 4 *credit hours*
- MAT 202 - Linear Algebra 4 *credit hours*
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 *credit hours*

Social and Behavioral Sciences: 6 credits

- SOC 111 - Introduction to Sociology 3 *credit hours* **AND**
Students must choose **one** History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations 3 *credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations 3 *credit hours*
- HIS 113 - World Civilizations to 1500 3 *credit hours*
- HIS 114 - World Civilizations Since 1500 3 *credit hours*
- HIS 211 - United States History through the Civil War 3 *credit hours*
- HIS 212 - United States History Since the Civil War 3 *credit hours*
- HIS 214 - African American History 3 *credit hours*

Additional General Education Requirements: 6 credits

- UAS 111 - Introduction to Drone Technology 3 *credit hours*
Or refer to the General Education Technology Requirement for a list of other approved courses.

Wellness Requirement 3 *credit hours*

Refer to General Education Wellness Requirement for a list of approved courses.

Area of Concentration Requirements: 24-25 credits

Required courses: 11 credits

- CHE 111 - General Chemistry 1 4 *credit hours*
- CHE 112 - General Chemistry 2 4 *credit hours*
- MAT 146 - Precalculus 2 3 *credit hours*
- **Choose one course from the following:** 4 credits
- BIO 103 - General Botany 4 *credit hours*
- BIO 105 - General Zoology 4 *credit hours*
- BIO 107 - Environmental Science 4 *credit hours*
- BIO 122 - Fundamentals of Ecology Travel Study 1 4 *credit hours*

Choose two courses from the following: 8 credits

- BIO 220 - Genetics with Laboratory 4 *credit hours*
- BIO 221 - Molecular Biotechniques 4 *credit hours*
- BIO 223 - General Microbiology 4 *credit hours*

Electives 1-2 *credits*.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of General Education Requirements listed above: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Satisfied by UAS 111.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and solve problems by applying discipline-appropriate quantitative tools, concepts, and methods.
2. Investigate physical phenomena experimentally, using discipline-specific tools and methodology.
3. Apply discipline-specific lab safety rules.
4. Apply knowledge of discipline-specific fundamental concepts to explain experimental outcomes or real world phenomena.
5. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Liberal Arts (A.A.)

Official Title of Major: Arts and Sciences Transfer - Liberal Arts, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.ARTS-SCILIBERAL

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the School of Liberal Arts

Purpose: To provide a liberal arts education to students who wish to transfer to a four-year university or college and seek a baccalaureate degree. The Liberal Arts area of concentration provides a strong foundation in literature, philosophy, world languages, social science, and analytical and critical thinking skills, all of which prepare students for lifelong learning and social, cultural, and technological change. This area of concentration is designed to provide students with a broad-based liberal arts experience, enriching students' understanding of the physical and social world. It is also a good preparation for students who aim, eventually, for graduate or professional schools. Students who want to broaden and enrich their education also will find the liberal arts area of concentration rewarding.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of the General Education Requirements listed below: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Students must choose one Mathematics course from the following:

- MAT 133 - Finite Mathematics 3 *credit hours*
OR
- MAT 135 - Statistics 3 *credit hours*
OR
More advanced level if qualified from the list below:
- MAT 137 - College Algebra 3 *credit hours*
- MAT 145 - Precalculus 1 3 *credit hours*
- MAT 146 - Precalculus 2 3 *credit hours*
- MAT 151 - Accelerated Precalculus 4 *credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*

- MAT 192 - Calculus and Analytic Geometry 2 4 credit hours
- MAT 202 - Linear Algebra 4 credit hours
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 credit hours

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) 3 credit hours **AND**
Students must choose one History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations 3 credit hours
- HIS 112 - Early Modern and Modern Western Civilizations 3 credit hours
- HIS 113 - World Civilizations to 1500 3 credit hours
- HIS 114 - World Civilizations Since 1500 3 credit hours
- HIS 211 - United States History through the Civil War 3 credit hours
- HIS 212 - United States History Since the Civil War 3 credit hours
Students planning to transfer to the B.A. in Humanities program at UMUC should take HIS 111 or HIS 112
- HIS 214 - African American History 3 credit hours

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 credit hours

Refer to General Education Technology Requirement for a list of approved courses.

- **Wellness Requirement** 3 credit hours

Refer to General Education Wellness Requirement for a list of approved courses.

Area of Concentration: 26 credits

World Languages Sequence: 6 credits

A World Languages Sequence is 111 & 112 or 112 & 211 or 140 & 141 or 211 & 212 of the same language.

This area of concentration requires 6 credit hours in the same language. Students who have completed two or more years of a language in high school and plan to continue that language must submit high school transcripts to World Languages department chair to determine proper placement into a World Language Sequence and to provide guidance on transferability to four-year institutions.

Choose two courses in the same sequence:

- ARB 111 - Elementary Arabic 1 3 credit hours
- ARB 112 - Elementary Arabic 2 3 credit hours
- ARB 211 - Intermediate Arabic 1 3 credit hours
- ARB 212 - Intermediate Arabic 2 3 credit hours
- CHI 111 - Elementary Chinese 1 3 credit hours
- CHI 112 - Elementary Chinese 2 3 credit hours
- FRE 111 - Elementary French 1 3 credit hours
- FRE 112 - Elementary French 2 3 credit hours
- FRE 211 - Intermediate French 1 3 credit hours
- FRE 212 - Intermediate French 2 3 credit hours
- GER 111 - Elementary German 1 3 credit hours
- GER 112 - Elementary German 2 3 credit hours

- GER 211 - Intermediate German 1 3 *credit hours*
- GER 212 - Intermediate German 2 3 *credit hours*
- GRK 111 - Elementary Greek 1 3 *credit hours*
- GRK 112 - Elementary Greek 2 3 *credit hours*
- HEB 111 - Elementary Hebrew 1 3 *credit hours*
- HEB 112 - Elementary Hebrew 2 3 *credit hours*
- ITA 111 - Elementary Italian 1 3 *credit hours*
- ITA 112 - Elementary Italian 2 3 *credit hours*
- ITA 211 - Intermediate Italian 1 3 *credit hours*
- ITA 212 - Intermediate Italian 2 3 *credit hours*
- JPN 111 - Elementary Japanese 1 3 *credit hours*
- JPN 112 - Elementary Japanese 2 3 *credit hours*
- KOR 111 - Elementary Korean 1 3 *credit hours*
- KOR 112 - Elementary Korean 2 3 *credit hours*
- LAT 111 - Elementary Latin 1 3 *credit hours*
- LAT 112 - Elementary Latin 2 3 *credit hours*
- PRT 111 - Elementary Portuguese 1 3 *credit hours*
- PRT 112 - Elementary Portuguese 2 3 *credit hours*
- RUS 111 - Elementary Russian 1 3 *credit hours*
- RUS 112 - Elementary Russian 2 3 *credit hours*
- RUS 211 - Intermediate Russian 1 3 *credit hours*
- RUS 212 - Intermediate Russian 2 3 *credit hours*
- SPA 111 - Elementary Spanish 1 3 *credit hours*
- SPA 112 - Elementary Spanish 2 3 *credit hours*
- SPA 140 - Elementary Spanish for Health Care 1 3 *credit hours*
- SPA 141 - Elementary Spanish for Health Care 2 3 *credit hours*
- SPA 211 - Intermediate Spanish 1 3 *credit hours*
- SPA 212 - Intermediate Spanish 2 3 *credit hours*
- URD 111 - Elementary Urdu 1 3 *credit hours*
- URD 112 - Elementary Urdu 2 3 *credit hours*

Art History: 3 credits

- ART 209 - History of Western Art: Ancient to Medieval 3 *credit hours*

Music: 3-4 credits

Choose one of the following:

- MUS 100 - Music Appreciation 3 *credit hours*
- MUS 101 - Music Fundamentals 3 *credit hours*
- MUS 113 - Music Theory and Ear Training 1 4 *credit hours*
- MUS 114 - Music Theory and Ear Training 2 4 *credit hours*
- MUS 160 - History of Popular Music 3 *credit hours*
- MUS 165 - Highlights of Music History: Jazz 3 *credit hours*
- MUS 169 - Music, Power and Gender 3 *credit hours*
- MUS 213 - Music Theory and Ear Training 3 4 *credit hours*
- MUS 214 - Music Theory and Ear Training 4 4 *credit hours*
- MUS 260 - History of Music 1 3 *credit hours*
- MUS 261 - History of Music 2 3 *credit hours*

- MUS 262 - World Music: Music as Culture 3 credit hours

Philosophy: 6 credits

- PHL 111 - Introduction to Philosophy 3 credit hours
- PHL 146 - Contemporary Moral Problems 3 credit hours
PHL 146 simultaneously satisfies the Diversity Requirement for this degree.

Electives: 7-8 credits

No more than 3 credits of physical activity courses may be used as electives.

Diversity Requirement

Satisfied by PHL 146.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Plan, communicate, and implement coherent and justifiable practices that improve human conditions
2. Analyze ideas critically and defend recommendations for improving the conditions of society
3. Act in a personally and socially responsible manner, recognizing the complexity and diversity of the human experience
4. Identify and use technology to research, collect, analyze, and interpret data and effectively communicate information that educates and influences others
5. Communicate in a language other than English in a culturally appropriate way.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Nursing Transfer (A.S.)

Official Title of Major: Arts and Sciences Transfer - Nursing Transfer, A.S.

Award: Associate of Science degree, A.S.

Code: AS.ARTS-SCI.NUR

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Biology Department

Purpose: The Nursing Transfer program prepares students for transfer to area colleges and universities offering a bachelor of science degree in nursing.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirement: 32 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 8 credits

- BIO 101 - Foundations of Biology: Molecules and Cells 4 *credit hours*
- BIO 223 - General Microbiology 4 *credit hours*

Mathematics: 3 credits

- MAT 137 - College Algebra 3 *credit hours*
OR
More advanced level if qualified from the list below:
- MAT 145 - Precalculus 1 3 *credit hours*
- MAT 146 - Precalculus 2 3 *credit hours*
- MAT 151 - Accelerated Precalculus 4 *credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 4 *credit hours*

- MAT 202 - Linear Algebra 4 credit hours
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 credit hours

Social and Behavioral Sciences: 6 credits

- SOC 111 - Introduction to Sociology 3 credit hours **AND**

Students must choose one History course from the following:

- HIS 111 - Ancient and Medieval Western Civilizations 3 credit hours
- HIS 112 - Early Modern and Modern Western Civilizations 3 credit hours
- HIS 113 - World Civilizations to 1500 3 credit hours
- HIS 114 - World Civilizations Since 1500 3 credit hours
- HIS 211 - United States History through the Civil War 3 credit hours
- HIS 212 - United States History Since the Civil War 3 credit hours
- HIS 214 - African American History 3 credit hours

Additional General Education Requirements: 3 credits

- **Technology Requirement** 3 credit hours

Refer to General Education Technology Requirements for a list of approved courses.

Area of Concentration Requirements: 28 credits

- BIO 135 - Principles of Nutrition 3 credit hours
- BIO 233 - Anatomy and Physiology 1 4 credit hours
- BIO 234 - Anatomy and Physiology 2 4 credit hours
- CHE 111 - General Chemistry 1 4 credit hours
- OR**
- CHE 115 - General, Organic and Introduction to Biochemistry 4 credit hours
- MAT 135 - Statistics 3 credit hours
- PSY 111 - Introduction to Psychology 3 credit hours
- PSY 211 - Developmental Psychology 3 credit hours
- Elective 4 credit hours

No more than 3 credits of physical activity courses may be used as electives.

Note: Students transferring to the University of Maryland Baltimore should take CHE 115. Students transferring to an allied health program that requires two terms of chemistry should take CHE 111 and either CHE 112 or CHE 113, depending on the requirements of the transfer institution.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of General Education Requirements listed above: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Satisfied by BIO 135.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and solve problems by applying discipline-appropriate quantitative tools, concepts, and methods.
2. Investigate physical phenomena experimentally, using discipline-specific tools and methodology.
3. Apply discipline-specific lab safety rules.
4. Apply knowledge of discipline-specific fundamental concepts to explain experimental outcomes or real world phenomena.
5. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.

This program aligns with the college's core competencies.

Related Anne Arundel Community College Degree

Students seeking entry to Anne Arundel Community College's Nursing (RN) degree should refer to the registered nurse information in this catalog.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Nutrition (A.S.)

Official Title of Major: Arts and Sciences Transfer - Nutrition, A.S.

Award: Associate of Science degree, A.A.S.

Code: AS.ARTS-SCI.NUTRI

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Biology Department

Purpose: Prepares students for transfer to four-year institutions offering Bachelor of Science degrees in nutrition.

Following the completion of this two year transfer option, students would be ready to enroll in an accredited dietetics program at a four-year institution. Once the bachelor's degree in dietetics is obtained, students would need to apply for and complete an internship experience at an accredited facility. This enables the student to take the registration exam for dietitians, thus earning the credential of "registered dietitian."

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirement: 32 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- **Communications course** 3 *credit hours*
- **Sophomore Literature course** 3 *credit hours*

Refer to General Education Arts & Humanities Requirements for a list of approved Communications and Sophomore Literature courses.

Biological and Physical Sciences: 8 credits

- BIO 101 - Foundations of Biology: Molecules and Cells 4 *credit hours*
- BIO 223 - General Microbiology 4 *credit hours*

Mathematics: 3 credits

- MAT 137 - College Algebra 3 *credit hours*
OR
More advanced level if qualified from the list below:
- MAT 145 - Precalculus 1 3 *credit hours*
- MAT 146 - Precalculus 2 3 *credit hours*
- MAT 151 - Accelerated Precalculus 4 *credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 4 *credit hours*
- MAT 202 - Linear Algebra 4 *credit hours*

Social and Behavioral Sciences: 6 credits

- SOC 111 - Introduction to Sociology 3 *credit hours* **AND**

Students must choose **one** History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations 3 *credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations 3 *credit hours*
- HIS 113 - World Civilizations to 1500 3 *credit hours*
- HIS 114 - World Civilizations Since 1500 3 *credit hours*
- HIS 211 - United States History through the Civil War 3 *credit hours*
- HIS 212 - United States History Since the Civil War 3 *credit hours*

- HIS 214 - African American History 3 credit hours

Additional General Education Requirements: 3 credits

- **Technology Requirement** 3 credit hours
Refer to General Education Technology Requirements for a list of approved courses.

Area of Concentration Requirements: 28 credits

- BIO 135 - Principles of Nutrition 3 credit hours
- CHE 111 - General Chemistry 1 4 credit hours
- CHE 112 - General Chemistry 2 4 credit hours
- CHE 213 - Organic Chemistry 1 4 credit hours
- CHE 214 - Organic Chemistry 2 4 credit hours
- PSY 111 - Introduction to Psychology 3 credit hours
- **Electives (consult with an advisor)** 6 credit hours
No more than 3 credits of physical activity courses may be used as electives.
UMD transfer students must take CHEM 272 at UMD the summer before the junior year in order to meet the prerequisite for the junior year BCHM 461 class.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of General Education Requirements listed above: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Satisfied by BIO 135.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and solve problems by applying discipline appropriate quantitative tools, concepts, and methods.
2. Investigate physical phenomena experimentally, using discipline specific tools and methodology.
3. Apply discipline specific lab safety rules.
4. Apply knowledge of discipline specific fundamental concepts to explain experimental outcomes or real world phenomena.
5. Collect, analyze, and interpret information based on scientific reasoning and discipline specific concepts.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Physics (A.S.)

Official Title of Major: Arts and Sciences Transfer - Physics, A.S.

Award: Associate of Science degree, A.S.

Code: AS.ARTS-SCI.PHY

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Physical Sciences Department

Purpose: Prepares students for transfer to four-year institutions offering Bachelor of Science degrees in various professional disciplines including physics.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 33 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 8 credits

- CHE 111 - General Chemistry 1 4 *credit hours*
- CHE 112 - General Chemistry 2 4 *credit hours*

Mathematics: 4 credits

- MAT 191 - Calculus and Analytic Geometry 1 4 credit hours

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) 3 credit hours **AND**
Students must choose **one** History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations 3 credit hours
- HIS 112 - Early Modern and Modern Western Civilizations 3 credit hours
- HIS 113 - World Civilizations to 1500 3 credit hours
- HIS 114 - World Civilizations Since 1500 3 credit hours
- HIS 211 - United States History through the Civil War 3 credit hours
- HIS 212 - United States History Since the Civil War 3 credit hours
- HIS 214 - African American History 3 credit hours

Additional General Education Requirements: 3 credits

- **Wellness Requirement** 3 credit hours

Refer to General Education Wellness Requirement for a list of approved courses.

Area of Concentration Requirements: 27 credits

- MAT 192 - Calculus and Analytic Geometry 2 4 credit hours
- MAT 201 - Calculus and Analytic Geometry 3 4 credit hours
- MAT 202 - Linear Algebra 4 credit hours
- OR**
- MAT 212 - Differential Equations 4 credit hours
- PHY 211 - General Physics 1 4 credit hours
- PHY 212 - General Physics 2 4 credit hours
- PHY 213 - General Physics 3 4 credit hours
- **Electives** (consult with an advisor) 3 credit hours
Elective must be used to satisfy the Technology Requirement if it has not been demonstrated otherwise. Refer to Technology Requirement for a list of approved courses. Other recommended courses include MAT 202 or MAT 212.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of the General Education Requirements listed below: (1) the Communication Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214.)

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and solve problems by applying discipline-appropriate quantitative tools, concepts, and methods.
2. Investigate physical phenomena experimentally, using discipline-specific tools and methodology.
3. Apply discipline-specific lab safety rules.
4. Apply knowledge of discipline specific fundamental concepts to explain experimental outcomes or real world phenomena.
5. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Plant Science (A.S.)

Official Title of Major: Arts and Sciences Transfer - Plant Science, A.S.

Award: Associate of Science degree, A.S.

Code: AS.ARTS-SCI.PLANT

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Biology Department

Purpose: This program provides preparation for entry into horticulture, plant science and landscape management programs at four-year institutions.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 35 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours

- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- **Communications course** 3 *credit hours*

Strongly recommend COM 111 or COM 116.

- **Sophomore Literature course** 3 *credit hours*

Refer to General Education Arts & Humanities Requirements for a list of approved Communications and Sophomore Literature courses.

Biological and Physical Sciences: 8 credits

- BIO 103 - General Botany 4 *credit hours*
- BIO 113 - Sustainable Horticulture 4 *credit hours*

Mathematics: 3 credits

- MAT 145 - Precalculus 1 3 *credit hours*
OR
More advanced level if qualified from the list below:
- MAT 146 - Precalculus 2 3 *credit hours*
- MAT 151 - Accelerated Precalculus 4 *credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 4 *credit hours*
- MAT 202 - Linear Algebra 4 *credit hours*
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 *credit hours*

Social and Behavioral Sciences: 6 credits

- SOC 111 - Introduction to Sociology 3 *credit hours* **AND**
Students must choose **one** History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations 3 *credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations 3 *credit hours*
- HIS 113 - World Civilizations to 1500 3 *credit hours*
- HIS 114 - World Civilizations Since 1500 3 *credit hours*
- HIS 211 - United States History through the Civil War 3 *credit hours*
- HIS 212 - United States History Since the Civil War 3 *credit hours*
- HIS 214 - African American History 3 *credit hours*

Additional General Education Requirements: 6 credits

- UAS 111 - Introduction to Drone Technology 3 *credit hours*
- *Or refer to the General Education Technology Requirement for a list of other approved courses.*
- **Wellness Requirement** 3 *credit hours*

Refer to General Education Wellness Requirement for a list of approved courses.

Area of Concentration Requirements: 25 credits

Required courses: 16 credits

- BIO 201 - Plant Taxonomy 4 credit hours
- CHE 111 - General Chemistry 1 4 credit hours
- CHE 112 - General Chemistry 2 4 credit hours
- PHS 215 Introduction to Soil Science 4 credits

Choose from the following: 9 credits

- ACH 115 - Introduction to Landscape Architecture 4 credit hours
- BIO 104 - Foundations of Biology: Ecology and Evolution 4 credit hours
- BIO 207 - Plant Propagation 3 credit hours
- BIO 210 - Ecological Principles and Environmental Assessment 4 credit hours
- BIO 215 - Restoration Ecology 3 credit hours
- BIO 220 - Genetics with Laboratory 4 credit hours
- CHE 213 - Organic Chemistry 1 4 credit hours
- CHE 214 - Organic Chemistry 2 4 credit hours
- PHY 111 - Fundamentals of Physics 1 4 credit hours
- SCI 101 - Introduction to Research 1 credit hour
- **Electives:** 0-3 credit hours

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of General Education Requirements listed above: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Satisfied by UAS 111.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze and solve problems by applying discipline-appropriate quantitative tools, concepts, and methods.
2. Investigate physical phenomena experimentally, using discipline-specific tools and methodology.
3. Apply discipline-specific lab safety rules.
4. Apply knowledge of discipline-specific fundamental concepts to explain experimental outcomes or real world phenomena.
5. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.

This program aligns with the college's core competencies

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Premedical Professional (A.S.)

Official Title of Major: Arts and Sciences Transfer - Premedical Professional, A.S.

Award: Associate of Science degree, A.S.

Code: AS.ARTS-SCI.PREMED

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Biology Department

Purpose: This program provides preparation for entry into dental, optometry, medical, nursing, pharmaceutical and veterinary programs at four-year institutions.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 35 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101- ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 8 credits

- BIO 101 - Foundations of Biology: Molecules and Cells 4 *credit hours*
- BIO 223 - General Microbiology 4 *credit hours*

Mathematics: 3 credits

- MAT 137 - College Algebra 3 *credit hours*
OR
- MAT 145 - Precalculus 1 3 *credit hours*

OR

More advanced level if qualified from the list below:

- MAT 146 - Precalculus 2 3 *credit hours*
- MAT 151 - Accelerated Precalculus 4 *credit hours*
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 4 *credit hours*
- MAT 201 - Calculus and Analytic Geometry 3 4 *credit hours*
- MAT 202 - Linear Algebra 4 *credit hours*
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 *credit hours*

Social and Behavioral Sciences: 6 credits

- SOC 111 - Introduction to Sociology 3 *credit hours* **AND**
Students must choose **one** History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations 3 *credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations 3 *credit hours*
- HIS 113 - World Civilizations to 1500 3 *credit hours*
- HIS 114 - World Civilizations Since 1500 3 *credit hours*
- HIS 211 - United States History through the Civil War 3 *credit hours*
- HIS 212 - United States History Since the Civil War 3 *credit hours*
- HIS 214 - African American History 3 *credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 *credit hours*

Refer to General Education Technology Requirements for a list of approved courses.

- **Wellness Requirement** 3 *credit hours*

Refer to General Education Wellness Requirements for a list of approved courses.

Area of Concentration Requirements: 25 credits

- BIO 233 - Anatomy and Physiology 1 4 *credit hours*
- BIO 234 - Anatomy and Physiology 2 4 *credit hours*
- CHE 111 - General Chemistry 1 4 *credit hours*
- CHE 112 - General Chemistry 2 4 *credit hours*
- PHY 111 - Fundamentals of Physics 1 4 *credit hours*
- PHY 112 - Fundamentals of Physics 2 4 *credit hours*
- **Electives** 1 *credit hour*

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of General Education Requirements listed above: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply discipline-appropriate quantitative tools, concepts, and methods to analyze and solve problems.
2. Investigate physical phenomena experimentally, using discipline-specific tools and methodology.
3. Apply discipline-specific lab safety rules.
4. Explain experimental outcomes or real world phenomena using knowledge of discipline-specific fundamental concepts.
5. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Psychology (A.A.)

Official Title of Major: Arts and Sciences Transfer - Psychology, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.ARTS-SCI.PSY

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Psychology Program

Purpose: A degree in psychology is a traditional and well-established major offered at almost all universities across the country. This area of concentration prepares students for continuation to a BS/BA in Psychology. Anne Arundel Community College can readily supply the initial core class requirements for such degrees. In addition, this concentration can prepare students for employment in any number of fields that engage the social sciences. The degree can lead to a variety of professions - from the social sciences to business and beyond. This concentration provides essential content to understand the psychological constructs of human behavior including psychological theories on biological, behavioral, environmental, and cognitive factors that influence human development, human relationships, and sociocultural perspectives. Ultimately, students within this area of concentration will have a comprehensive picture of the opportunities psychology offers as a field of study and a career, and will also come to a greater understanding of themselves and their personal motivations.

Students who would like to follow the Psychology pathway and at the same time earn the Gender and Sexuality Studies (certificate) (CRT.GSS.STDS) can do so by taking the following recommended courses within the Psychology Arts and Sciences transfer degree (AA.ARTS-SCI.PSY). 15 credit hours are required for the certificate:

- GSS 101 - Introduction to Women's Studies (under Social and Behavioral Sciences)
- GSS 228 - Literature in English by Women / ENG 228 - Literature in English by Women (under Sophomore Literature)
- GSS 216 - Human Sexuality/ PSY 216 - Human Sexuality **or** GSS 222 - Psychology of Women/ PSY 222 - Psychology of Women (under "additional 3 credits in Psychology")
- GSS 113 - Women's Health/ HEA 113 - Women's Health (under Wellness)

- One additional GSS course

Students who would like to follow the Psychology pathway and at the same time earn the Gender and Sexuality Studies letter of recognition can do so by taking the following recommended courses within the Psychology Arts and Sciences transfer degree (AA.ARTS-SCI.PSY). 9 credit hours are required for the Letter of Recognition:

- GSS 101 - Introduction to Women's Studies (under Social and Behavioral Sciences)
- GSS 228 - Literature in English by Women/ ENG 228 - Literature in English by Women (under Sophomore Literature)
- GSS 113 - Women's Health/ HEA 113 - Women's Health (under Wellness)

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of the General Education Requirements listed below: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214.)

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog.

English: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course 3 *credit hours*
- Sophomore Literature course 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

BIO 101 is recommended, but students should check with their transfer institution.

Mathematics: 3 credits

Students must choose one Mathematics course from the following:

- MAT 133 - Finite Mathematics 3 credit hours

OR

- MAT 135 - Statistics 3 credit hours

OR

More advanced level if qualified from the list below:

- MAT 137 - College Algebra 3 credit hours
- MAT 145 - Precalculus 1 3 credit hours
- MAT 146 - Precalculus 2 3 credit hours
- MAT 151 - Accelerated Precalculus 4 credit hours
- MAT 191 - Calculus and Analytic Geometry 1 4 credit hours
- MAT 192 - Calculus and Analytic Geometry 2 4 credit hours
- MAT 202 - Linear Algebra 4 credit hours
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 credit hours

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) 3 credit hours **AND**

Students must choose one History course from the following:

- HIS 111 - Ancient and Medieval Western Civilizations 3 credit hours
- HIS 112 - Early Modern and Modern Western Civilizations 3 credit hours
- HIS 211 - United States History through the Civil War 3 credit hours
- HIS 212 - United States History Since the Civil War 3 credit hours
- HIS 113 - World Civilizations to 1500 3 credit hours
- HIS 114 - World Civilizations Since 1500 3 credit hours
- HIS 214 - African American History 3 credit hours

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 credit hours

Refer to Technology Requirement for a list of approved courses.

- **Wellness Requirement** 3 credit hours

Refer to Wellness Requirement for a list of approved courses. HEA 113/GSS 113 is recommended for students seeking Gender and Sexuality Studies (certificate) or Gender and Sexuality Studies letter of recognition.

Area of Concentration Requirements: 26 credits

Required Courses: 9 credits

- PSY 100 - Career Development and Assessment 3 credit hours
- PSY 111 - Introduction to Psychology 3 credit hours

AND

- PSY 211 - Developmental Psychology 3 credit hours
- OR**
- PSY 214 - Abnormal Psychology 3 credit hours

Choose one course from the following: 3 credits

Students should check with their transfer institution on the most appropriate course for transfer.

- PSY 102 - Psychology of African Americans 3 credit hours
- PSY 205 - Child Psychology 3 credit hours
- PSY 208 - Adolescent Psychology 3 credit hours
- PSY 212 - Personality Psychology 3 credit hours
- PSY 216 - Human Sexuality 3 credit hours
- PSY 221 - Psychology of Men 3 credit hours
- PSY 222 - Psychology of Women 3 credit hours
- PSY 223 - Social Psychology 3 credit hours
- PSY 224 - Multicultural Psychology 3 credit hours
- PSY 250 - Statistics in Social and Behavioral Sciences 3 credit hours

Electives: 14 credits

Recommend students check transfer institution's requirements. No more than 3 credits of physical activity courses may be used as electives.

Students seeking the Gender and Sexuality Studies (certificate) and/or Gender and Sexuality Studies letter of recognition may wish to choose electives from the GSS area. (GSS 101 - Introduction to Women's Studies is recommended for students seeking the Gender and Sexuality Studies (certificate) or Gender and Sexuality Studies letter of recognition.)

Diversity Requirement

PSY 211 or PSY 214 meet this requirement.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Explain variation in behavior and mental processes using basic psychological terminology, concepts and theories.
2. Evaluate psychological science and practice using ethical standards.
3. Apply psychological content and skills to career goals.
4. Describe the influences of contextual, biological and sociocultural factors in shaping human thought and behavior.

5. Analyze and articulate psychological factors that influence social issues.
6. Summarize and evaluate general ideas and conclusions from psychological sources.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Arts and Sciences Transfer - Theater (A.A.)

Official Title of Major: Arts and Sciences Transfer - Theater, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.ARTS-SCI.THEATER

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Performing Arts Department

Purpose: For students interested in pursuing professional training, transferring to a four-year institution or gaining personal enrichment by concentrating in theater.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Arts and Sciences Transfer Program Core Course Requirements

The Program Requirements for this degree are simultaneously satisfied by three of the General Education Requirements listed below: (1) the Communications Arts and Humanities general education requirement, (2) the Sophomore Literature Arts and Humanities general education requirement, and (3) one of the History Social and Behavioral Sciences general education requirement courses (HIS 111 or HIS 112 or HIS 113 or HIS 114 or HIS 211 or HIS 212 or HIS 214).

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education Requirements and degree program required courses section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*

ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- Communications course *3 credit hours*
- Sophomore Literature course *3 credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

- Students must choose one Mathematics course from the following:
 - MAT 133 - Finite Mathematics *3 credit hours*
- OR**
- MAT 135 - Statistics *3 credit hours*
- OR**
- More advanced level if qualified from the list below:
 - MAT 137 - College Algebra *3 credit hours*
 - MAT 145 - Precalculus 1 *3 credit hours*
 - MAT 146 - Precalculus 2 *3 credit hours*
 - MAT 151 - Accelerated Precalculus *4 credit hours*
 - MAT 191 - Calculus and Analytic Geometry 1 *4 credit hours*
 - MAT 192 - Calculus and Analytic Geometry 2 *4 credit hours*
 - MAT 202 - Linear Algebra *4 credit hours*
 - MAT 230 - Elementary Calculus (For Business and Social Sciences) *3 credit hours*

Social and Behavioral Sciences: 6 credits

- Social and Behavioral Sciences course (other than history) *3 credit hours* **AND**
Students must choose one History course from the following:
- HIS 111 - Ancient and Medieval Western Civilizations *3 credit hours*
- HIS 112 - Early Modern and Modern Western Civilizations *3 credit hours*
- HIS 113 - World Civilizations to 1500 *3 credit hours*
- HIS 114 - World Civilizations Since 1500 *3 credit hours*
- HIS 211 - United States History through the Civil War *3 credit hours*
- HIS 212 - United States History Since the Civil War *3 credit hours*
- HIS 214 - African American History *3 credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** *3 credit hours*

Refer to General Education Technology Requirements for a list of approved courses.

- **Wellness Requirement** *3 credit hours*

Refer to General Education Wellness Requirements for a list of approved courses.

Area of Concentration Requirements: 26 credits

Required Courses: 15 credits

- THA 111 - Introduction to Theater 3 credit hours
- THA 121 - Stagecraft 3 credit hours
- THA 125 - Script Analysis 3 credit hours
- THA 132 - Acting 1 3 credit hours
- THA 180 - Play Production 3 credit hours

Theater Electives: 3 credits

Students are encouraged to contact the Theater Coordinator before selecting a Theater elective.

Electives: 8 credits

Recommend students check on transfer institution's requirements. No more than 3 credits of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon completion of this program, students will be able to:

1. Communicate complex ideas and information through writing, speaking, presenting, and using technology.
2. Locate, organize, and analyze information from multiple sources in order to develop informed, reasoned, and substantiated arguments.
3. Explain the value of tradition, innovation, and creativity in the performing arts.
4. Apply mathematical skills, critical analysis, and logical thinking to solve problems and interpret quantitative information.
5. Apply an awareness of social diversity and the ways in which cultural values are historically and socially situated.
6. Describe the origins of, and fundamental skills required in, live performance, design, and technical theatre career fields.
7. Constructively critique their own work, as well as the work of their peers.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Baking and Pastry Arts (certificate)

Official Title of Certificate: Baking and Pastry Arts, Certificate

Award: Certificate

Code: CRT.HRM.BAK-PASTRY

Total Credit Hours: 21

Visit www.aacc.edu to learn more about the Hotel, Culinary Arts and Tourism Institute

Purpose: Prepares students for employment in the hospitality industry such as in a restaurant or hotel bakery, or in a bakeshop setting such as a privately owned bakery or wholesale club or grocery store bakery. This certificate builds toward Hotel/Restaurant Management degree, Baking and Pastry Arts Option.

Range of Occupations

- Bread Baker
- Cake Decorator
- Restaurant Pastry cook
- Confectioner

Additional Program Requirements

Students are required to wear an approved chef uniform for production classes. See course description for specifics.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 21 credits

- HRM 201 - Intermediate Bread Production *3 credit hours*
- HRM 202 - Intermediate Cake Production *3 credit hours*
- HRM 232 - World Culture and Cuisine: A Social Science Perspective *3 credit hours*
- HRM 226 - Advanced Pastry Production *3 credit hours*
- HRM 227 - Chocolates, Confections, and Entremet *3 credit hours*
- HRM 260 - Purchasing and Cost Controls *3 credit hours*
- HRM 275 - Internship in Hotel/ Restaurant Management *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. **Introduction to the Hospitality and Baking and Pastry Industry:** Develop an understanding of the hospitality industry and career opportunities in the field. Investigate trade publications and professional organizations appropriate for continuing

education. Become familiar with the organizational structure and basic functions of departments within hospitality and food service establishments.

2. **Food Safety:** Apply and evaluate safe, sanitary procedures, habits, and behaviors in hotel and restaurant facilities.
3. **Business and Math Skills:** Perform mathematical functions related to food service operations.
4. **Basic Baking:** Apply the fundamentals of baking science to the preparation of a variety of products. Use and care for equipment normally found in bake shop or baking areas.
5. **Advanced Baking:** Develop skills in more advanced decorating techniques and more complex preparations of pastry, confections, and dessert products.
6. **Purchasing and Receiving:** Apply concepts to lower costs and improve quality of ingredients. Reduce risk and ensure the security of supply and manage relationships with purveyors and improve quality of ingredients.
7. **Nutrition:** Describe the characteristics, functions, and food sources of major nutrients and how to maximize nutrient retention in food preparation and storage. Apply the principles of nutrient needs throughout the life cycle to menu planning and food preparation.
8. **Customer Service:** Identify customer service and guest relations standards and policies that must be in place for the successful operation of a hotel and restaurant.
9. **Environmental Sustainability:** Use knowledge of best practices to further sustainability (economic, environmental, and cultural/social) in the industry (sustainability)
10. **Leadership and Human Relationships:** Demonstrate knowledge and skills in a practical event environment.
11. **Multicultural Perspectives:** Demonstrate knowledge of multicultural perspectives to meet the needs of the guest and employees (customer service)

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Administration Transfer (A.S.)

Official Title of Major: Business Administration Transfer, A.S.

Award: Associate of Science degree, A.S.

Total Credit Hours: 60

Code: AS.BPA.ADM

Visit www.aacc.edu to learn more about the Business Administration Department

Purpose: Provides the first two years of coursework for students planning to transfer to a bachelor's degree program at a four-year college or university majoring in business. Students with a bachelor's degree who are preparing for the Maryland CPA exam should note requirements under the Financial Accounting (certificate) (CPA preparation) program.

Additional Program Requirements

A program consisting of a core of courses essential for all business transfer students. Students are expected to work with their advisors to tailor a suitable mix of electives in order to meet the requirements of their intended transfer college.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A -ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- COM 111 - Fundamentals of Oral Communication 3 *credit hours* **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours*
- Arts and humanities general education course (except COM)

Biological and Physical Sciences: 7 credits

At least one lab science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 *credit hours*
Note: Students who do not test directly into MAT 230 may use the prerequisite math course to satisfy an elective.

Social and Behavioral Sciences: 6 credits

- ECO 211 - Principles of Economics 1 3 *credit hours*
- Social and Behavioral Sciences general education course (except ECO)
See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- **Technology Requirement** 3 *credit hours*
CTA 100 is recommended. This requirement may also be satisfied by CLEP exam.
- **Wellness Requirement**
3 *credit hours*
See General Education Wellness Requirements for a list of approved courses.

Program Requirements: 26 credits

- BPA 111 - Introduction to Business 3 credit hours
- BPA 201 - Financial Accounting 3 credit hours
- BPA 202 - Managerial Accounting 3 credit hours
- ECO 212 - Principles of Economics 2 3 credit hours
- ECO 232 - Business Statistics 3 credit hours
(formerly listed as BPA 232)
- LGS 253 - Business Law 1 3 credit hours
(formerly listed as BPA 253)
- **BPA, ECO or ESI Elective** 8 credit hours

Note: Students who do not test directly into MAT 230 may use the prerequisite math course to satisfy an elective. Also, ECO 233 is a recommended elective.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Describe the components of a changing global business environment.
2. Apply analytical and critical thinking skills to develop quantitative and ethically-based accounting decisions.
3. Apply economic information to business decisions.
4. Demonstrate the use of analytical tools and technology that supports business practices.
5. Identify, evaluate, and analyze contractual disputes utilizing legal theories.

This program aligns with all the college's core competencies.

Transferring Credits to a Maryland Public Four-Year School

Maryland public four-year colleges and universities accept a minimum of 60 and as many as 70 credits earned toward an associate degree from a Maryland public community college. Students planning to transfer should consult with an AACC academic and transfer advisor; and are advised to obtain permission from the four-year college or university when planning to transfer credits beyond the minimum degree requirements at AACC. More than 70 credits earned at AACC may be transferred if outlined within an established transfer agreement. Current transfer agreements can be found on the AACC Transfer Partners webpage.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Advertising/Marketing (A.A.S.)

Official Title of Major: Business Management - Advertising/Marketing, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.BMT.ADV-MKT

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: Provides comprehensive skills necessary for a successful and satisfying business career. Exposes students to all aspects of today's rapidly changing and technologically challenging business environment. Prepares students for careers in the global economy. Students who wish to major in business at a four-year college should enroll in the Business Administration transfer program or should carefully review and follow the special articulation agreement for 'Business Management' programs (refer to Transfer Services).

Additional Degree Requirements

A program chosen from a core of courses considered essential for any business student and from a broad range of electives. Students are expected to select a four-course area of concentration that will permit them to enter a variety of business occupations. The groups of courses listed are examples of appropriate and logical selections in an area of concentration. Required courses cannot be used as area of concentration electives.

Range of Occupations

- Advertising Sales Clerk/Agent
- Salesperson
- Advertising Copywriter
- Marketing Clerk
- Marketing Analyst
- Social Media Clerk/Assistant

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 24 credits

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*

ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology 3 credit hours
OR
- SOC 111 - Introduction to Sociology 3 credit hours
Students who elect not to take SOC 111 must satisfy the diversity requirement with an elective. Refer to General Education Diversity Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- Technology Requirement 3 credit hours
Refer to General Education Technology Requirements for a list of approved courses. This requirement may also be satisfied by CLEP exam.
- Wellness Requirement 3 credit hours
Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 24 credits

- BPA 111 - Introduction to Business 3 credit hours
- BPA 138 - Business and Professional Ethics 3 credit hours
- BPA 142 - Principles of Management 3 credit hours
- BPA 162 - Business Communications 3 credit hours
- BPA 201 - Financial Accounting 3 credit hours
- LGS 250 - Legal Issues for Business 3 credit hours
(formerly listed as BPA 250)
OR
- LGS 253 - Business Law 1 3 credit hours
(formerly listed as BPA 253)
- ECO 121 - Introduction to Economics 3 credit hours
OR
- ECO 211 - Principles of Economics 1 3 credit hours

BPA Elective (consult with an advisor) 3 credit hours

Area of Concentration Requirements: 12 credits

- BPA 125 - Principles of Marketing 3 credit hours
- BPA 126 - Advertising and Sales Promotion 3 credit hours
- BPA 127 - Digital Marketing and Analytics 3 credit hours

And choose one of the following:

- ART 106 - Introduction to Digital Design 3 credit hours
- BPA 132 - Sales and Sales Training 3 credit hours
- BPA 135 - Customer Service 3 credit hours
- BPA 275 - Internship in Business 1 3 credit hours
- ESI 104 - Entrepreneurship: Sales & Marketing for Small Business 3 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of the advertising/marketing area of concentration, students will be able to:

1. Describe the dynamics of the changing global business environment.
2. Apply information from financial statements for decision-making purposes.
3. Present ideas and communicate in a professional manner.
4. Apply economic information for decision-making purposes.
5. Apply current business concepts and laws to develop legal & ethical business practices.
6. Apply marketing practices to create measurable results and meet marketing objectives.
7. Develop revenue enhancement solutions by employing appropriate marketing strategies.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Business Communications (A.A.S.)
- Business Management - Healthcare Professionals (A.A.S.)
- Business Management - Human Resources (A.A.S.)
- Business Management - Leadership (A.A.S.)
- Business Management - Office Management (A.A.S.)
- Business Management - Small Business Management (A.A.S.)

- Business Management - Supply Chain Management (A.A.S.)
- Business Management - Advertising/Marketing (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Advertising/Marketing (certificate)

Official Title of Certificate: Business Management - Advertising/Marketing, Certificate

Award: Certificate

Code: CRT.BMT.ADV-MRKT

Total Credit Hours: A minimum of 18

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: To enhance and upgrade managerial and communication skills and prepare for careers in the 21st century including today's technologically advanced workplace. Because the program is carefully tailored to job-related skills, full-time students can complete it in two terms.

Additional Program Requirements

Two core courses that provide a business-related background and four electives that allow the student to specialize in advertising/marketing.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Requirements: 6 credits

- BPA 111 - Introduction to Business 3 *credit hours*
- BPA 162 - Business Communications 3 *credit hours*

Area of Concentration Requirements: 12 credits

- BPA 125 - Principles of Marketing 3 *credit hours*

- BPA 126 - Advertising and Sales Promotion 3 *credit hours*

And choose two of the following:

- BPA 119 - Global Business 3 *credit hours*
- BPA 127 - Digital Marketing and Analytics 3 *credit hours*
- BPA 132 - Sales and Sales Training 3 *credit hours*
- BPA 142 - Principles of Management 3 *credit hours*
- BPA 275 - Internship in Business 1 3 *credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply marketing practices to create measurable results to meet marketing objectives.
2. Develop revenue enhancement solutions by employing appropriate marketing strategies.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Advertising/Marketing (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Business Communications (A.A.S.)

Official Title of Major: Business Management - Business Communications, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.BMT.BUS-COM

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: Provides comprehensive skills necessary for a successful and satisfying business career. Exposes students to all aspects of today's rapidly changing and technologically challenging business environment. Prepares students for careers in the global economy. Students who wish to major in business at a four-year college should enroll in the Business Administration transfer program or should carefully review and follow the special articulation agreement for 'Business Management' programs (refer to Transfer Services).

Additional Degree Requirements

A program chosen from a core of courses considered essential for any business student and from a broad range of electives. Students are expected to select a four-course area of concentration that will permit them to enter a variety of business occupations. The groups of courses listed are examples of appropriate and logical selections in an area of concentration. Required courses cannot be used as area of concentration electives.

Range of Occupations

- Social Media Clerk/Assistant
- Secretary

- Administrative Assistant

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 24 credits

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology 3 *credit hours*
OR
- SOC 111 - Introduction to Sociology 3 *credit hours*
Students who elect not to take SOC 111 must satisfy the diversity requirement with an elective. Refer to General Education Diversity Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- Technology Requirement 3 *credit hours*
Refer to General Education Technology Requirements for a list of approved courses. This requirement may also be satisfied by CLEP exam.
- Wellness Requirement 3 *credit hours*
Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 24 credits

- BPA 111 - Introduction to Business 3 *credit hours*
- BPA 138 - Business and Professional Ethics 3 *credit hours*
- BPA 142 - Principles of Management 3 *credit hours*
- BPA 162 - Business Communications 3 *credit hours*
- BPA 201 - Financial Accounting 3 *credit hours*
- LGS 250 - Legal Issues for Business 3 *credit hours*
(formerly listed as BPA 250)
OR
- LGS 253 - Business Law 1 3 *credit hours*
(formerly listed as BPA 253)
- ECO 121 - Introduction to Economics 3 *credit hours*
OR
- ECO 211 - Principles of Economics 1 3 *credit hours*

BPA Elective (consult with an advisor) 3 *credit hours*

Area of Concentration Requirements: 12 credits

Choose 12 credits from the following list:

- ART 106 - Introduction to Digital Design 3 *credit hours*
- BPA 125 - Principles of Marketing 3 *credit hours*
- BPA 126 - Advertising and Sales Promotion 3 *credit hours*
- BPA 127 - Digital Marketing and Analytics 3 *credit hours*
- BPA 135 - Customer Service 3 *credit hours*
- COM 110 - Introduction to Interpersonal Communication 3 *credit hours*
- COM 200 - Intercultural Communication 3 *credit hours*

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of the business communications area of concentration, students will be able to:

1. Describe the dynamics of the changing global business environment.
2. Apply information from financial statements for decision-making purposes.
3. Present ideas and communicate in a professional manner.
4. Apply economic information for decision-making purposes.
5. Apply current business concepts and laws to develop legal & ethical business practices.
6. Use technology to communicate effectively in a business setting.
7. Produce written, oral, and visual documents or presentations appropriate to a business environment.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Advertising/Marketing (A.A.S.)
- Business Management - Healthcare Professionals (A.A.S.)
- Business Management - Human Resources (A.A.S.)
- Business Management - Leadership (A.A.S.)
- Business Management - Office Management (A.A.S.)
- Business Management - Small Business Management (A.A.S.)
- Business Management - Supply Chain Management (A.A.S.)

- Business Management - Business Communications (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Business Communications (certificate)

Official Title of Certificate: Business Management - Business Communications, Certificate

Award: Certificate

Code: CRT.BMT.BUS-COM

Total Credit Hours: A minimum of 18

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: To enhance and upgrade managerial and communication skills and prepare for careers in the 21st century including today's technologically advanced workplace. Because the program is carefully tailored to job-related skills, full-time students can complete it in two terms.

Additional Program Requirements

Two core courses that provide a business-related background and four electives that allow the student to specialize in business communications.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Requirements: 6 credits

- BPA 111 - Introduction to Business *3 credit hours*
- BPA 162 - Business Communications *3 credit hours*

Area of Concentration Requirements: 12 credits

- COM 111 - Fundamentals of Oral Communication *3 credit hours*
- CTA 100 - Computing and Information Technology *3 credit hours*
- **And choose two of the following:**
- ART 106 - Introduction to Digital Design *3 credit hours*
- BPA 125 - Principles of Marketing *3 credit hours*
- BPA 126 - Advertising and Sales Promotion *3 credit hours*
- BPA 127 - Digital Marketing and Analytics *3 credit hours*
- BPA 135 - Customer Service *3 credit hours*
- COM 110 - Introduction to Interpersonal Communication *3 credit hours*
- COM 200 - Intercultural Communication *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Use technology to communicate effectively in a business setting.
2. Produce written, oral and visual documents or presentations appropriate to a business environment.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Business Communications (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Healthcare Professionals (A.A.S.)

Official Title of Major: Business Management - Healthcare Professionals, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.BMT.HEA-PROF

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: Provides comprehensive skills necessary for a successful and satisfying business career. Exposes students to all aspects of today's rapidly changing and technologically challenging business environment. Prepares students for careers in the global economy. Students who wish to major in business at a four-year college should enroll in the Business Administration transfer program or should carefully review and follow the special articulation agreement for 'Business Management' programs (refer to Transfer Services).

Additional Degree Requirements

A program chosen from a core of courses considered essential for any business student and from a broad range of electives. Students are expected to select a four-course area of concentration that will permit them to enter a variety of business occupations. The groups of courses listed are examples of appropriate and logical selections in an area of concentration. Required courses cannot be used as area of concentration electives.

Range of Occupations

- Administrative Medical Assistant
- Medical Clerk
- Medical Assistant
- Mental Health Assistant/Technician
- Information Clerk

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 24 credits

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*

- ENG 102 - Academic Writing and Research 2 3 credit hours
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology 3 credit hours
OR
- SOC 111 - Introduction to Sociology 3 credit hours
Students who elect not to take SOC 111 must satisfy the diversity requirement with an elective. Refer to General Education Diversity Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- Technology Requirement 3 credit hours
Refer to General Education Technology Requirements for a list of approved courses. This requirement may also be satisfied by CLEP exam.
- Wellness Requirement 3 credit hours
Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 24 credits

- BPA 111 - Introduction to Business 3 credit hours
- BPA 138 - Business and Professional Ethics 3 credit hours
- BPA 142 - Principles of Management 3 credit hours
- BPA 162 - Business Communications 3 credit hours
- BPA 201 - Financial Accounting 3 credit hours
- LGS 250 - Legal Issues for Business 3 credit hours
(formerly listed as BPA 250)
OR
- LGS 253 - Business Law 1 3 credit hours
(formerly listed as BPA 253)
- ECO 121 - Introduction to Economics 3 credit hours
OR
- ECO 211 - Principles of Economics 1 3 credit hours

BPA Elective (consult with an advisor) 3 credit hours

Area of Concentration Requirements: 12 credits

- BPA 140 - Fundamentals of Healthcare Management 3 credit hours
- BPA 145 - Leadership 3 credit hours
- BPA 171 - Principles of Supervision 3 credit hours
- BPA 190 - Organizational Behavior 3 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of healthcare professionals area of concentration, students will be able to:

1. Describe the dynamics of the changing global business environment.
2. Apply information from financial statements for decision-making purposes.
3. Present ideas and communicate in a professional manner.
4. Apply economic information for decision-making purposes.
5. Apply current business concepts and laws to develop legal & ethical business practices.
6. Apply state and federal healthcare policies in the operation of a healthcare enterprise.
7. Use recent developments in healthcare to assess alternative management solutions in healthcare related problems and challenges.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Advertising/Marketing (A.A.S.)
- Business Management - Business Communications (A.A.S.)
- Business Management - Human Resources (A.A.S.)
- Business Management - Leadership (A.A.S.)
- Business Management - Office Management (A.A.S.)
- Business Management - Small Business Management (A.A.S.)
- Business Management - Supply Chain Management (A.A.S.)
- Business Management - Healthcare Professionals (certificate)

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Healthcare Professionals (certificate)

Official Title of Certificate: Business Management - Healthcare Professionals, Certificate

Award: Certificate

Code: CRT.BMT.HEA-CR-PRF

Total Credit Hours: A minimum of 18

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: To enhance and upgrade managerial and communication skills and prepare for careers in the 21st century including today's technologically advanced workplace. Because the program is carefully tailored to job-related skills, full-time students can complete it in two terms.

Additional Program Requirements

Two core courses that provide a business-related background and four electives that allow the student to specialize in healthcare management.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Requirements: 6 credits

- BPA 111 - Introduction to Business 3 *credit hours*
- BPA 162 - Business Communications 3 *credit hours*

Area of Concentration Requirements: 12 credits

- BPA 138 - Business and Professional Ethics 3 *credit hours*
- BPA 140 - Fundamentals of Healthcare Management 3 *credit hours*

And choose two of the following:

- BPA 142 - Principles of Management 3 *credit hours*

- BPA 145 - Leadership *3 credit hours*
- BPA 171 - Principles of Supervision *3 credit hours*
- BPA 190 - Organizational Behavior *3 credit hours*
- LGS 253 - Business Law 1 *3 credit hours*
(formerly listed as BPA 253)

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply state and federal healthcare policies in the operation of a healthcare enterprise.
2. Use recent developments in healthcare to assess alternative management solutions for healthcare related problems and challenges.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Healthcare Professionals (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Human Resources (A.A.S.)

Official Title of Major: Business Management - Human Resources, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.BMT.HR

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: Provides comprehensive skills necessary for a successful and satisfying business career. Exposes students to all aspects of today's rapidly changing and technologically challenging business environment. Prepares students for careers in the global economy. Students who wish to major in business at a four-year college should enroll in the Business Administration transfer program or should carefully review and follow the special articulation agreement for 'Business Management' programs (refer to Transfer Services).

Additional Degree Requirements

A program chosen from a core of courses considered essential for any business student and from a broad range of electives. Students are expected to select a four-course area of concentration that will permit them to enter a variety of business occupations. The groups of courses listed are examples of appropriate and logical selections in an area of concentration. Required courses cannot be used as area of concentration electives.

Range of Occupations

- Human Resources Assistant
- Human Resources Administrative Assistant
- Human Resources Analyst
- Human Resources Specialist

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 24 credits

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology 3 *credit hours*
OR
- SOC 111 - Introduction to Sociology 3 *credit hours*
Students who elect not to take SOC 111 must satisfy the diversity requirement with an elective. Refer to General Education Diversity Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- Technology Requirement 3 *credit hours*
Refer to General Education Technology Requirements for a list of approved courses. This requirement may also be satisfied by CLEP exam.

- Wellness Requirement 3 *credit hours*
Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 24 credits

- BPA 111 - Introduction to Business 3 *credit hours*
- BPA 138 - Business and Professional Ethics 3 *credit hours*
- BPA 142 - Principles of Management 3 *credit hours*
- BPA 162 - Business Communications 3 *credit hours*
- BPA 201 - Financial Accounting 3 *credit hours*
- LGS 250 - Legal Issues for Business 3 *credit hours*
(formerly listed as BPA 250)
OR
- LGS 253 - Business Law 1 3 *credit hours*
(formerly listed as BPA 253)
- ECO 121 - Introduction to Economics 3 *credit hours*
OR
- ECO 211 - Principles of Economics 1 3 *credit hours*

BPA Elective (consult with an advisor) 3 *credit hours*

Area of Concentration Requirements: 12 credits

- BPA 172 - Human Resource Management 3 *credit hours*
- LGS 230 - Employment Law 3 *credit hours*

And choose two of the following:

- BPA 145 - Leadership 3 *credit hours*
- BPA 173 - Managing and Valuing Workforce Diversity 3 *credit hours*
- BPA 190 - Organizational Behavior 3 *credit hours*
- BPA 275 - Internship in Business 1 3 *credit hours*

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of the human resources area of concentration, students will be able to:

1. Describe the dynamics of the changing global business environment.
2. Apply information from financial statements for decision-making purposes.
3. Present ideas and communicate in a professional manner.
4. Apply economic information for decision-making purposes.
5. Apply current business concepts and laws to develop legal & ethical business practices.
6. Analyze, create, and implement human resource systems for employment, labor relations, compensation and benefits, and performance assessment.
7. Create training and development systems that effectively leverage human capital.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Advertising/Marketing (A.A.S.)
- Business Management - Business Communications (A.A.S.)
- Business Management - Healthcare Professionals (A.A.S.)
- Business Management - Leadership (A.A.S.)
- Business Management - Office Management (A.A.S.)
- Business Management - Small Business Management (A.A.S.)
- Business Management - Supply Chain Management (A.A.S.)

- Business Management - Human Resources (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Human Resources (certificate)

Official Title of Certificate: Business Management - Human Resources, Certificate

Award: Certificate

Code: CRT.BMT.HR

Total Credit Hours: A minimum of 18

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: To enhance and upgrade managerial and communication skills and prepare for careers in the 21st century including today's technologically advanced workplace. Because the program is carefully tailored to job-related skills, full-time students can complete it in two terms.

Additional Program Requirements

Two core courses that provide a business-related background and four electives that allow the student to specialize in human resources.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Requirements: 6 credits

- BPA 111 - Introduction to Business *3 credit hours*
- BPA 162 - Business Communications *3 credit hours*

Area of Concentration Requirements: 12 credits

- BPA 172 - Human Resource Management *3 credit hours*
- LGS 230 - Employment Law *3 credit hours*

And choose two of the following:

- BPA 138 - Business and Professional Ethics *3 credit hours*
- BPA 142 - Principles of Management *3 credit hours*
- **OR**
- BPA 145 - Leadership *3 credit hours*
- BPA 173 - Managing and Valuing Workforce Diversity *3 credit hours*
- BPA 190 - Organizational Behavior *3 credit hours*
- BPA 275 - Internship in Business 1 *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze, create, and implement human resource systems for employment, labor relations, compensation and benefits, and performance assessment.
2. Create training and development systems that effectively leverage human capital.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Human Resources (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Leadership (A.A.S.)

Official Title of Major: Business Management - Leadership, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.BMT.LEADER

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: Provides comprehensive skills necessary for a successful and satisfying business career. Exposes students to all aspects of today's rapidly changing and technologically challenging business environment. Prepares students for careers in the global economy. Students who wish to major in business at a four-year college should enroll in the Business Administration transfer program or should carefully review and follow the special articulation agreement for 'Business Management' programs (refer to Transfer Services).

Additional Degree Requirements

A program chosen from a core of courses considered essential for any business student and from a broad range of electives. Students are expected to select a four-course area of concentration that will permit them to enter a variety of business occupations. The groups of courses listed are examples of appropriate and logical selections in an area of concentration. Required courses cannot be used as area of concentration electives.

Range of Occupations

- Incumbent workers seeking to improve leadership skills

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 24 credits

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*

ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology 3 credit hours
OR
- SOC 111 - Introduction to Sociology 3 credit hours
Students who elect not to take SOC 111 must satisfy the diversity requirement with an elective. Refer to General Education Diversity Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- Technology Requirement 3 credit hours
Refer to General Education Technology Requirements for a list of approved courses. This requirement may also be satisfied by CLEP exam.
- Wellness Requirement 3 credit hours
Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 24 credits

- BPA 111 - Introduction to Business 3 credit hours
- BPA 138 - Business and Professional Ethics 3 credit hours
- BPA 142 - Principles of Management 3 credit hours
- BPA 162 - Business Communications 3 credit hours
- BPA 201 - Financial Accounting 3 credit hours

- LGS 250 - Legal Issues for Business 3 credit hours
(formerly listed as BPA 250)
OR
- LGS 253 - Business Law 1 3 credit hours
(formerly listed as BPA 253)

- ECO 121 - Introduction to Economics 3 credit hours
OR
- ECO 211 - Principles of Economics 1 3 credit hours

BPA Elective (consult with an advisor) 3 credit hours

Area of Concentration Requirements: 12 credits

- BPA 145 - Leadership 3 credit hours
And choose three of the following:
- BPA 106 - Introduction to Project Management 3 credit hours
Prerequisite: CTA 100 or CTP 103.
- BPA 119 - Global Business 3 credit hours
- BPA 171 - Principles of Supervision 3 credit hours
- BPA 173 - Managing and Valuing Workforce Diversity 3 credit hours
- BPA 174 - Women and Business 3 credit hours
- BPA 190 - Organizational Behavior 3 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of the leadership area of concentration, students will be able to:

1. Describe the dynamics of the changing global business environment.
2. Apply information from financial statements for decision-making purposes.
3. Present ideas and communicate in a professional manner.
4. Apply economic information for decision-making purposes.
5. Apply current business concepts and laws to develop legal & ethical business practices.
6. Engage in strategic thinking for organizational growth and change.
7. Develop personal awareness, focus, and clarity of purpose as a leader.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Advertising/Marketing (A.A.S.)
- Business Management - Business Communications (A.A.S.)
- Business Management - Healthcare Professionals (A.A.S.)
- Business Management - Human Resources (A.A.S.)
- Business Management - Office Management (A.A.S.)
- Business Management - Small Business Management (A.A.S.)

- Business Management - Supply Chain Management (A.A.S.)
- Business Management - Leadership (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Leadership (certificate)

Official Title of Certificate: Business Management - Leadership, Certificate

Award: Certificate

Code: CRT.BMT.LEADER

Total Credit Hours: A minimum of 18

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: To enhance and upgrade managerial and communication skills and prepare for careers in the 21st century including today's technologically advanced workplace. Because the program is carefully tailored to job-related skills, full-time students can complete it in two terms.

Additional Program Requirements

Two core courses that provide a business-related background and a four-course concentration that allows the student to specialize in leadership.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Requirements: 6 credits

- BPA 111 - Introduction to Business 3 *credit hours*
- BPA 162 - Business Communications 3 *credit hours*

Area of Concentration Requirements: 12 credits

- BPA 138 - Business and Professional Ethics 3 *credit hours*

- BPA 145 - Leadership 3 credit hours

And choose two of the following:

- BPA 106 - Introduction to Project Management 3 credit hours
BPA 106 has a prerequisite of CTA 100 or CTP 103.
- BPA 119 - Global Business 3 credit hours
- BPA 142 - Principles of Management 3 credit hours
OR
- BPA 171 - Principles of Supervision 3 credit hours
- BPA 173 - Managing and Valuing Workforce Diversity 3 credit hours
- BPA 174 - Women and Business 3 credit hours
- BPA 190 - Organizational Behavior 3 credit hours

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Engage in strategic thinking for organizational growth and change.
2. Develop personal awareness, focus, and clarity of purpose as a leader.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Leadership (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Office Management (A.A.S.)

Official Title of Major: Business Management - Office Management, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.BMT.OFF-MGT

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: Provides comprehensive skills necessary for a successful and satisfying business career. Exposes students to all aspects of today's rapidly changing and technologically challenging business environment. Prepares students for careers in the global economy. Students who wish to major in business at a four-year college should enroll in the Business Administration transfer program or should carefully review and follow the special articulation agreement for 'Business Management' programs (refer to Transfer Services).

Additional Degree Requirements

A program chosen from a core of courses considered essential for any business student and from a broad range of electives. Students are expected to select a four-course area of concentration that will permit them to enter a variety of business occupations. The groups

of courses listed are examples of appropriate and logical selections in an area of concentration. Required courses cannot be used as area of concentration electives.

Range of Occupations

- Secretary
- Administrative Assistant
- General Office Clerk
- Administrative Service Manager
- Office Manager

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 24 credits

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology 3 credit hours
OR
- SOC 111 - Introduction to Sociology 3 credit hours
Students who elect not to take SOC 111 must satisfy the diversity requirement with an elective. Refer to General Education Diversity Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- Technology Requirement 3 credit hours
Refer to General Education Technology Requirements for a list of approved courses. This requirement may also be satisfied by CLEP exam.
- Wellness Requirement 3 credit hours
Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 24 credits

- BPA 111 - Introduction to Business 3 credit hours
- BPA 138 - Business and Professional Ethics 3 credit hours
- BPA 142 - Principles of Management 3 credit hours
- BPA 162 - Business Communications 3 credit hours
- BPA 201 - Financial Accounting 3 credit hours
- LGS 250 - Legal Issues for Business 3 credit hours
(formerly listed as BPA 250)
OR
- LGS 253 - Business Law 1 3 credit hours
(formerly listed as BPA 253)
- ECO 121 - Introduction to Economics 3 credit hours
OR
- ECO 211 - Principles of Economics 1 3 credit hours

BPA Elective (consult with an advisor) 3 credit hours

Area of Concentration Requirements: 12 credits

- BPA 141 - Office Procedures and Technology 3 credit hours
- BPA 171 - Principles of Supervision 3 credit hours
Choose 6 credits from:
- ART 106 - Introduction to Digital Design 3 credit hours
- BPA 135 - Customer Service 3 credit hours
- BPA 173 - Managing and Valuing Workforce Diversity 3 credit hours
- BPA 217 - Small Business Accounting 3 credit hours
- COM 110 - Introduction to Interpersonal Communication 3 credit hours
OR
- COM 200 - Intercultural Communication 3 credit hours
- CTA 100 - Computing and Information Technology 3 credit hours
(If not used to satisfy technology general education requirement)
- CTA 111 - Personal Computer Word Processing Applications 4 credit hours
- CTA 115 - Personal Computer Database Management Systems 4 credit hours

- CTA 116 - Personal Computer Spreadsheet Applications 4 credit hours
- HRM 140 - Event Planning 3 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of the office management area of concentration, students will be able to:

1. Describe the dynamics of the changing global business environment.
2. Apply information from financial statements for decision-making purposes.
3. Present ideas and communicate in a professional manner.
4. Apply economic information for decision-making purposes.
5. Apply current business concepts and laws to develop legal & ethical business practices.
6. Support management with effective office administration.
7. Manage employee, customer and institutional records and documents.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Advertising/Marketing (A.A.S.)
- Business Management - Business Communications (A.A.S.)
- Business Management - Healthcare Professionals (A.A.S.)
- Business Management - Human Resources (A.A.S.)
- Business Management - Leadership (A.A.S.)
- Business Management - Small Business Management (A.A.S.)
- Business Management - Supply Chain Management (A.A.S.)
- Business Management - Office Management (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Office Management (certificate)

Official Title of Certificate: Business Management - Office Management, Certificate

Award: Certificate

Code: CRT.BMT.OFFICE-MGT

Total Credit Hours: A minimum of 18

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: To enhance and upgrade managerial and communication skills and prepare for careers in the 21st century including today's technologically advanced workplace. Because the program is carefully tailored to job-related skills, full-time students can complete it in two terms.

Additional Program Requirements

Two core courses that provide a business-related background and a four-course concentration that allows the student to specialize in office management.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Requirements: 6 credits

- BPA 111 - Introduction to Business *3 credit hours*
- BPA 162 - Business Communications *3 credit hours*

Area of Concentration Requirements: 12 credits

- BPA 141 - Office Procedures and Technology *3 credit hours*
- BPA 171 - Principles of Supervision *3 credit hours*

Choose 6 credits from:

- ART 106 - Introduction to Digital Design *3 credit hours*
- BPA 135 - Customer Service *3 credit hours*
- BPA 173 - Managing and Valuing Workforce Diversity *3 credit hours*
- BPA 217 - Small Business Accounting *3 credit hours*

- COM 110 - Introduction to Interpersonal Communication *3 credit hours*
OR
- COM 200 - Intercultural Communication *3 credit hours*
- CTA 100 - Computing and Information Technology *3 credit hours*
- CTA 111 - Personal Computer Word Processing Applications *4 credit hours*
- CTA 115 - Personal Computer Database Management Systems *4 credit hours*
- CTA 116 - Personal Computer Spreadsheet Applications *4 credit hours*
- HRM 140 - Event Planning *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Support management with effective office administration.
2. Prepare business documents.
3. Manage employee, customer and institutional records.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Office Management (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Small Business Management (A.A.S.)

Official Title of Major: Business Management - Small Business Management, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.BMT.SML-BUS.MGT

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: Provides comprehensive skills necessary for a successful and satisfying business career. Exposes students to all aspects of today's rapidly changing and technologically challenging business environment. Prepares students for careers in the global economy. Students who wish to major in business at a four-year college should enroll in the Business Administration transfer program or should carefully review and follow the special articulation agreement for 'Business Management' programs (refer to Transfer Services).

Additional Degree Requirements

A program chosen from a core of courses considered essential for any business student and from a broad range of electives. Students are expected to select a four-course area of concentration that will permit them to enter a variety of business occupations. The groups of courses listed are examples of appropriate and logical selections in an area of concentration. Required courses cannot be used as area of concentration electives.

Range of Occupations

- Small-business owner/manager

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 24 credits

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology 3 *credit hours*
OR
- SOC 111 - Introduction to Sociology 3 *credit hours*
Students who elect not to take SOC 111 must satisfy the diversity requirement with an elective. Refer to General Education Diversity Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- Technology Requirement *3 credit hours*
Refer to General Education Technology Requirements for a list of approved courses. This requirement may also be satisfied by CLEP exam.
- Wellness Requirement *3 credit hours*
Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 24 credits

- BPA 111 - Introduction to Business *3 credit hours*
- BPA 138 - Business and Professional Ethics *3 credit hours*
- BPA 142 - Principles of Management *3 credit hours*
- BPA 162 - Business Communications *3 credit hours*
- BPA 201 - Financial Accounting *3 credit hours*
- LGS 250 - Legal Issues for Business *3 credit hours*
(formerly listed as BPA 250)
OR
- LGS 253 - Business Law 1 *3 credit hours*
(formerly listed as BPA 253)
- ECO 121 - Introduction to Economics *3 credit hours*
OR
- ECO 211 - Principles of Economics 1 *3 credit hours*

BPA Elective (consult with an advisor) *3 credit hours*

Area of Concentration Requirements: 12 credits

- BPA 120 - Small Business Management *3 credit hours*
And choose three of the following:
- BPA 119 - Global Business *3 credit hours*
- BPA 125 - Principles of Marketing *3 credit hours*
- BPA 126 - Advertising and Sales Promotion *3 credit hours*
- BPA 127 - Digital Marketing and Analytics *3 credit hours*
- BPA 132 - Sales and Sales Training *3 credit hours*
- BPA 135 - Customer Service *3 credit hours*
- BPA 156 - E-Commerce *3 credit hours*
- BPA 172 - Human Resource Management *3 credit hours*
- BPA 217 - Small Business Accounting *3 credit hours*
- BPA 195 - Entrepreneurial and Career Opportunities in the Cannabis Industry *3 credit hours*
- BPA 275 - Internship in Business 1 *3 credit hours*
- ESI 103 - Introduction to Entrepreneurship *3 credit hours*
(formerly listed as BPA 103)
- ESI 104 - Entrepreneurship: Sales & Marketing for Small Business *3 credit hours*
- ESI 231 - Introduction to Social Entrepreneurship and Nonprofit Management *3 credit hours*
(formerly listed as BPA 231)

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of the small business management area of concentration, students will be able to:

1. Describe the dynamics of the changing global business environment.
2. Apply information from financial statements for decision-making purposes.
3. Present ideas and communicate in a professional manner.
4. Apply economic information for decision-making purposes.
5. Apply current business concepts and laws to develop legal & ethical business practices.
6. Devise a business plan that will enable the business to secure additional financing and to provide a road map for running the business.
7. Develop skills necessary to effectively run and manage a small business.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Advertising/Marketing (A.A.S.)
- Business Management - Business Communications (A.A.S.)
- Business Management - Healthcare Professionals (A.A.S.)
- Business Management - Human Resources (A.A.S.)
- Business Management - Leadership (A.A.S.)
- Business Management - Office Management (A.A.S.)
- Business Management - Supply Chain Management (A.A.S.)

- Business Management - Small Business Management (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Small Business Management (certificate)

Official Title of Certificate: Business Management - Small Business Management, Certificate

Award: Certificate

Code: CRT.BMT.SM-BUS-MGT

Total Credit Hours: A minimum of 18

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: To enhance and upgrade managerial and communication skills and prepare for careers in the 21st century including today's technologically advanced workplace. Because the program is carefully tailored to job-related skills, full-time students can complete it in two terms.

Additional Program Requirements

Two core courses that provide a business-related background, one required class and three electives that allow the student to specialize in small business management.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Requirements: 6 credits

- BPA 111 - Introduction to Business 3 *credit hours*
- BPA 162 - Business Communications 3 *credit hours*

Area of Concentration Requirements: 12 credits

- BPA 120 - Small Business Management 3 *credit hours*

And choose three of the following:

- BPA 119 - Global Business 3 *credit hours*
- BPA 125 - Principles of Marketing 3 *credit hours*
- BPA 126 - Advertising and Sales Promotion 3 *credit hours*
- BPA 127 - Digital Marketing and Analytics 3 *credit hours*
- BPA 132 - Sales and Sales Training 3 *credit hours*
- BPA 135 - Customer Service 3 *credit hours*
- BPA 142 - Principles of Management 3 *credit hours*
- BPA 156 - E-Commerce 3 *credit hours*
- BPA 172 - Human Resource Management 3 *credit hours*
- BPA 195 - Entrepreneurial and Career Opportunities in the Cannabis Industry 3 *credit hours*
- BPA 201 - Financial Accounting 3 *credit hours*
- BPA 217 - Small Business Accounting 3 *credit hours*
- BPA 275 - Internship in Business 1 3 *credit hours*

- ESI 103 - Introduction to Entrepreneurship 3 *credit hours*
(formerly listed as BPA 103)
- ESI 104 - Entrepreneurship: Sales & Marketing for Small Business 3 *credit hours*
- ESI 231 - Introduction to Social Entrepreneurship and Nonprofit Management 3 *credit hours*
(formerly listed as BPA 231)

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Devise a business plan that will enable the business to secure additional financing and to provide a road map for running the business.
2. Develop skills necessary to effectively run and manage a small business.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Small Business Management (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Supply Chain Management (A.A.S.)

Official Title of Major: Business Management - Supply Chain Management, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.BMT.SPLYCHN.MGT

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: Provides comprehensive skills necessary for a successful and satisfying business career. Exposes students to all aspects of today's rapidly changing and technologically challenging business environment. Prepares students for careers in the global economy. Students who wish to major in business at a four-year college should enroll in the Business Administration transfer program or should carefully review and follow the special articulation agreement for 'Business Management' programs (refer to Transfer Services).

Additional Degree Requirements

A program chosen from a core of courses considered essential for any business student and from a broad range of electives. Students are expected to select a four-course area of concentration that will permit them to enter a variety of business occupations. The groups of courses listed are examples of appropriate and logical selections in an area of concentration. Required courses cannot be used as area of concentration electives.

Range of Occupations

- Logistician Assistant
- Logistician Clerk
- Warehouse manager
- Supply Clerk

- Materials Recording Clerk
- Materials Handling Clerk/Assistant
- Transportation Clerk

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 24 credits

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology 3 *credit hours*
OR
- SOC 111 - Introduction to Sociology 3 *credit hours*
Students who elect not to take SOC 111 must satisfy the diversity requirement with an elective. Refer to General Education Diversity Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- Technology Requirement 3 *credit hours*
Refer to General Education Technology Requirements for a list of approved courses. This requirement may also be satisfied by CLEP exam.
- Wellness Requirement 3 *credit hours*
Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 24 credits

- BPA 111 - Introduction to Business 3 *credit hours*
- BPA 138 - Business and Professional Ethics 3 *credit hours*
- BPA 142 - Principles of Management 3 *credit hours*
- BPA 162 - Business Communications 3 *credit hours*
- BPA 201 - Financial Accounting 3 *credit hours*
- LGS 250 - Legal Issues for Business 3 *credit hours*
(formerly listed as BPA 250)
- **OR**
- LGS 253 - Business Law 1 3 *credit hours*
(formerly listed as BPA 253)
- ECO 121 - Introduction to Economics 3 *credit hours*
- **OR**
- ECO 211 - Principles of Economics 1 3 *credit hours*

BPA Elective (consult with an advisor) 3 *credit hours*

Area of Concentration Requirements: 12 credits

- BPA 235 - Introduction to Transportation and Logistics 3 *credit hours*
- BPA 237 - Supply Chain Management 3 *credit hours*

And choose two of the following:

- BPA 119 - Global Business 3 *credit hours*
- BPA 236 - Introduction to Airport and Seaport Operations 3 *credit hours*
- BPA 238 - Domestic and International Freight Operations 3 *credit hours*
- BPA 246 - Business Operations and Logistics 3 *credit hours*
- BPA 275 - Internship in Business 1 3 *credit hours*

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of the supply chain management area of concentration, students will be able to:

1. Describe the dynamics of the changing global business environment.
2. Apply information from financial statements for decision-making purposes.
3. Present ideas and communicate in a professional manner.
4. Apply economic information for decision-making purposes.
5. Apply current business concepts and laws to develop legal & ethical business practices.
6. Apply logistics and purchasing concepts to improve supply chain operations.
7. Apply quality management tools for process improvement.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Advertising/Marketing (A.A.S.)
- Business Management - Business Communications (A.A.S.)
- Business Management - Healthcare Professionals (A.A.S.)
- Business Management - Human Resources (A.A.S.)
- Business Management - Leadership (A.A.S.)
- Business Management - Office Management (A.A.S.)
- Business Management - Small Business Management (A.A.S.)

- Business Management - Supply Chain Management (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Business Management - Supply Chain Management (certificate)

Official Title of Certificate: Business Management - Supply Chain Management, Certificate

Award: Certificate

Code: CRT.BMT.SPLYCHN.MGMT

Total Credit Hours: A minimum of 18

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: To enhance and upgrade managerial and communication skills and prepare for careers in the 21st century including today's technologically advanced workplace. Because the program is carefully tailored to job-related skills, full-time students can complete it in two terms.

Additional Program Requirements

Two core courses that provide a business-related background and a four-course concentration that allows the student to specialize in supply chain management.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Requirements: 6 credits

- BPA 111 - Introduction to Business *3 credit hours*
- BPA 162 - Business Communications *3 credit hours*

Area of Concentration Requirements: 12 credits

- BPA 235 - Introduction to Transportation and Logistics *3 credit hours*
- BPA 237 - Supply Chain Management *3 credit hours*

And choose two of the following:

- BPA 119 - Global Business *3 credit hours*
- BPA 236 - Introduction to Airport and Seaport Operations *3 credit hours*
- BPA 238 - Domestic and International Freight Operations *3 credit hours*
- BPA 246 - Business Operations and Logistics *3 credit hours*
- BPA 275 - Internship in Business 1 *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply logistics and purchasing concepts to improve supply chain operations.
2. Apply quality management tools for process improvement.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Supply Chain Management (A.A.S.)
- Transportation, Logistics, and Cargo Security (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Cisco Certified Network Associate (CCNA) Preparation (certificate)

Official Title of Certificate: Cisco Certified Network Associate (CCNA) Preparation, Certificate

Award: Certificate

Code: CRT.CIS.CCNA

Total Credit Hours: 12

Visit www.aacc.edu to learn more about the Cybersecurity, Networking and Digital Forensics Department

Purpose: Learn to install, configure, operate, and troubleshoot medium-size router and switched networks, including implementation and verification of connections to remote sites in a WAN. Includes basic mitigation of security threats, introduction to wireless networking concepts, and hands-on, performance-based skills. Further, it prepares students for the Cisco Certified Network Associate (CCNA) certification.

Related Industry Certifications

This program provides partial foundation for the following industry recognized certificates and certifications: Cisco CCNA certification exam.

Range of Occupations

- Field support technician
- Network administrator
- Network associate
- Network support technician

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 12 credits

- CTS 130 - Networking 1 4 *credit hours*
- CTS 131 - Networking 2 4 *credit hours*
- CTS 230 - Networking 3 4 *credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Use the command line interface (CLI) to configure a switch with security, virtual LANs (VLANs), trunking, and link aggregation.
- Demonstrate advanced IP addressing techniques and services such as dynamic host configuration protocol (DHCP).
- Configure a router with security, static routing and intermediate routing protocols.
- Apply Network Address Translation (NAT/PAT), access control lists (ACLs), and backups to manage networks and increase network security.
- Identify wide area network (WAN) technologies.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Information Assurance and Cybersecurity (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Cisco Certified Network Professional (CCNP) Preparation (certificate)

Official Title of Certificate: Cisco Certified Network Professional (CCNP) Preparation, Certificate

Award: Certificate

Code: CRT.CIS.CCNP

Total Credit Hours: 12

Visit www.aacc.edu to learn more about the Cybersecurity, Networking and Digital Forensics Department

Purpose: Plan, implement, verify and troubleshoot local and wide-area enterprise networks. Use advanced IP addressing and routing in implementing scalable and highly secure Cisco routers that are connected to LANs, WANs, and IPv6. Plan, configure, and verify the implementation of complex enterprise switching solutions that use the Cisco Enterprise Campus Architecture. Plan and perform regular maintenance on complex enterprise routed and switched networks. Use technology-based practices and a systematic ITIL-compliant approach to perform network troubleshooting.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 12 credits

- CTS 265 - CCNP ROUTE: Implementing IP Routing *4 credit hours*
- CTS 266 - CCNP SWITCH: Implementing IP Switching *4 credit hours*

- CTS 267 - CCNP TSHOOT: Maintaining and Troubleshooting IP Networks *4 credit hours*

Program Outcomes

Upon successful completion of this certificate, students will be able to:

- Plan, implement, verify and troubleshoot local and wide-area enterprise networks.
- Use advanced IP addressing and routing in implementing scalable and highly secure Cisco routers that are connected to LANs, WANs, and IPv6.
- Plan, configure, and verify the implementation of complex enterprise switching solutions that use the Cisco Enterprise Campus Architecture.
- Plan and perform regular maintenance on complex enterprise routed and switched networks.
- Use technology-based practices and a systematic ITIL-compliant approach to perform network troubleshooting.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Cloud Computing (certificate)

Title of Certificate: Cloud Computing, Certificate

Award: Certificate

Code: CRT.CIS.CLD-CMT

Total Credit Hours: 18

Visit www.aacc.edu to learn more about the Cybersecurity, Networking, and Digital Forensics Department

Purpose: This certificate is designed for students who have previous IT experience either from job or prior learning. Students are expected to have a working knowledge of computer systems and networking including Windows Server, TCP/IP, Virtualization, etc. Students may be changing careers, transitioning back into the workforce and/or former military.

A grade of C or better is required in each (Cloud Computing certificate) course requirement.

Range of Occupations

- Cloud Engineer
- Cloud Programmer
- Cloud Software Engineer
- Cloud Architect
- Network and Computer Systems Administrators
- Systems Engineer

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance

Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18 credits

A grade of C or better is required in each (Cloud Computing certificate) course requirement.

- CTP 114 - Python for Everyone 2 *credit hours*
- CTS 236 - Virtualization & Cloud 4 *credit hours*
- CTS 237 - Cloud Foundation 3 *credit hours*
- CTS 238 - Cloud Developing 3 *credit hours*
- CTS 239 - Cloud Solutions Architect 3 *credit hours*
- CTS 243 - Cloud Operations 3 *credit hours*

Program Outcomes

Upon successful completion of the Cloud Computing Certificate, students will be able to:

1. Understand AWS services, functions, and cost.
2. Summarize the process of designing cloud-based solutions.
3. Design and configure cloud-based services and solutions.
4. Secure and manage access to cloud-based networks and services.
5. Implement cloud backup, disaster recovery, and business continuity.
6. Implement identity and access management schemes.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Cloud Computing Transfer (A.S.)

Official Title of Major: Cloud Computing Transfer, A.S.

Award: Associate of Science degree, A.S.

Total Credit Hours: 60

Code: Contact Records Office

Visit www.aacc.edu to learn more about the Cybersecurity, Networking, and Digital Forensics Department

Purpose: This transfer program provides a solid information technology foundation for those students transferring to four-year colleges and universities to pursue a bachelor's and/or master's degree in cloud engineering. Students who have already selected a transfer college/university should consult with their Department Chair to plan their program and to keep abreast of program changes and updates to the articulation agreements between Anne Arundel Community College and the transfer institutions.

Range of Occupations

- Cloud Engineer
- Cloud Programmer

- Cloud Software Engineer
- Cloud Architect
- Network and Computer Systems Administrators
- Systems Engineer

Additionally

A grade of C or better is required in each (Cloud Computing Transfer, AS) course requirement.

Graduates in this field will find positions available in industry, education and government. Occupations can be explored further through the virtual Careers Center at www.aacc.edu/careers.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 31 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
 - ENG 102 - Academic Writing and Research 2 3 *credit hours*
- ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.*

Arts and Humanities: 6 credits

Students must take CTP 194 and one additional Arts and Humanities course. The second course must be from a discipline other than CTP. Refer to General Education Arts and Humanities Requirements for a list of approved courses.

- CTP 194 - Ethics and the Information Age 3 *credit hours*

Biological and Physical Sciences: 7 credits

Students must take BIO 135 and one additional 4-credit lab science. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses. Students should check their transfer institution for specific course requirements.

- BIO 135 - Principles of Nutrition 3 *credit hours*

Mathematics: 3 credits

MAT 135 or a higher-level math course.

Social and Behavioral Sciences: 6 credits

Students must take two Social and Behavioral Sciences courses from two different disciplines. One course should be used to satisfy the Diversity course requirement (SOC 111 is recommended).

Refer to General Education Social and Behavioral Sciences for a list of approved courses.

Additional General Education requirements: 3 Credits

Technology Requirement:

- CTS 107 - Cyber Essentials 3 credit hours

Program Requirements: 29 credits

A grade of C or better is required in each (Cloud Computing Transfer, AS) course requirement.

- CTS 110 - Network Essentials 4 credit hours
 - CTS 234 - Windows Server 4 credit hours
 - CTP 114 - Python for Everyone 2 credit hours
 - CTS 236 - Virtualization & Cloud 4 credit hours
 - CTS 237 - Cloud Foundation 3 credit hours
 - CTS 238 - Cloud Developing 3 credit hours
 - CTS 239 - Cloud Solutions Architect 3 credit hours
 - CTS 243 - Cloud Operations 3 credit hours
- Electives:** Complete 3 credits of electives from any CTA, CTP, CTS, CYB or STM course.

Diversity Requirement

Students may satisfy the diversity requirement simultaneously as they satisfy the Social and Behavioral Sciences or Arts and Humanities general education requirement. Refer to Diversity Requirement for a list of approved courses.

Wellness Requirement

BIO 135 meets the Wellness requirement for this degree.

Program Outcomes

Upon successful completion of the Cloud Engineering A.S. Degree, students will be able to:

1. Understand AWS services, functions, and cost
2. Summarize the process of designing cloud-based solutions
3. Design and configure cloud-based services and solutions
4. Secure and manage access to cloud-based networks and services
5. Implement cloud backup, disaster recovery, and business continuity
6. Implement identity and access management schemes

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Computer Information Systems - Database Administration (certificate)

Official Title of Certificate: Computer Information Systems - Database Administration, Certificate

Award: Certificate

Code: CRT.CIS.DATA-ADMN

Total Credit Hours: A minimum of 21

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: Prepares students for employment in the field of database administration by acquiring or updating database administrator skills. This option develops skills in the SQL language syntax and usage, Microsoft Access, Oracle, the roles and responsibilities of a database administrator, and provides experience in designing and implementing a production level, industrial grade database.

Range of Occupations

- Database administrator
- Database analyst
- Software developer

Additional Program Requirements

Students must complete each of the required CTA, CTS, or CTP courses with a grade of C or better.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 21 credits

- CTP 145 - Relational Databases and SQL 4 *credit hours*
- CTP 147 - PL-SQL Programming 3 *credit hours*
- CTP 245 - Database Administration 1 3 *credit hours*
- CTP 247 - Database Administration 2 3 *credit hours*
- CTS 110 - Network Essentials 4 *credit hours*
- CTS 120 - Introduction to Linux 4 *credit hours*

**CTP 103 is a prerequisite for courses included in this program. Students entering the program with technical expertise beyond the level of CTP 103 should meet with the department chair to waive the requirements for this course.*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Review database concepts and data models.
- Apply normalization of databases.
- Employ design and implementation using structured query language.
- Discuss distributed database management systems.
- Explain the use of database warehousing.
- Distinguish database connectivity with web services.
- Examine database administration and security.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Database Management Systems - Database Administration (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Computer Information Systems - Information Systems Technology (A.A.S.)

Official Title of Major: Computer Information Systems - Information Systems Technology, A.A.S.

Award: Associate of Applied Science

Code: AAS.CIS.INF-SYS

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Computer Information Systems Department

Purpose: Prepares students for careers requiring a strong background in computer technology and information systems. Covers fundamental concepts in database administration, computer technology, networking and information systems. The students may be eligible to sit for the following certifications: MOS (Microsoft Office Specialist) Word, MOS Excel, MOS Access, and MOS Outlook.

Range of Occupations

- Applications programmer
- Application software designer
- Database administrator
- Database analyst
- Database programmer
- Help desk specialist/analyst
- Help desk technologist
- Information manager for office or small business
- Information systems technician
- Office and administrative support specialist
- Personal computer software specialist
- Software developer

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- CTP 194 - Ethics and the Information Age 3 credit hours
OR
- COM 111 - Fundamentals of Oral Communication 3 credit hours
OR
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 credit hours

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

- MAT 137 - College Algebra 3 credit hours
Or more advanced level if qualified.

Social and Behavioral Sciences: 3 credits

Refer to General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- CTA 100 - Computing and Information Technology
This course meets the General Education Technology Requirement.
- **Wellness Requirement** 3 credit hours
Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 36 credits

Required Courses: 29 credits

- CTA 111 - Personal Computer Word Processing Applications 4 credit hours
- CTA 115 - Personal Computer Database Management Systems 4 credit hours
- CTA 116 - Personal Computer Spreadsheet Applications 4 credit hours
- CTA 120 - Help Desk Concepts 3 credit hours
- CTA 105 - Theory and Troubleshooting Microcomputers 1 3 credit hours
- CTS 110 - Network Essentials 4 credit hours
- CTP 200 - Systems Analysis and Design 4 credit hours
- CTA 100 - Computing and Information Technology 3 credit hours
- CTS 107 - Cyber Essentials 3 credit hours

Choose from BPA/CTA/CTP/CTS/STM elective courses: 7 credits

Recommended choices include:

- BPA 111 - Introduction to Business 3 credit hours
- BPA 120 - Small Business Management 3 credit hours
- CTA 112 - Personal Computer Presentation Graphics Applications 4 credit hours

- CTA 113 - Personal Computer Information Management Applications 4 credit hours
- CTP 110 - Internet Fundamentals 3 credit hours
- CTS 140 - Network Security Fundamentals 4 credit hours
- CTA 205 - Theory and Troubleshooting Microcomputers 2 3 credit hours
***Note: Take CTA 205 if seeking preparation for the A+ Certification.
- STM 213 - Professional Skills for STEM 1 credit hour

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by CTA 100.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Use proper computer system terminology.
2. Demonstrate the ability to address user questions in a help desk setting
3. Use office productivity software
4. Explain computer networks, including protocols, topologies, hardware, and network operating systems
5. Install and use platform-appropriate operating systems, DOS and UNIX/LINUX command structures, and graphical user interfaces.
6. Perform assembly, maintenance, and repair tasks involving microcomputer systems.
7. Use database management application software in computer information systems.
8. Apply troubleshooting principles to resolve user issues
9. Recommend and implement appropriate technical solutions in the workplace.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Computer Science Transfer - Computer Science (A.S.)
- Computer Science Transfer - Information Systems (A.S.)
- Information Assurance and Cybersecurity (A.A.S.)
- Management Information Systems Transfer (A.S.)
- Computer Information Systems - Database Administration (certificate)
- Computer Information Systems - Microsoft Office Specialist (certificate)
- Computer Information Systems - Personal Computer Specialist, Help Desk Specialist Option (certificate)

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Computer Information Systems - Microsoft Office Specialist (certificate)

Official Title of Certificate: Computer Information Systems - Microsoft Office Specialist, Certificate

Award: Certificate

Code: CRT.CIS.MICROSOFT-OS

Total Credit Hours: 23

Visit www.aacc.edu to learn more about the Computer Information Systems Department

Purpose: To prepare students for employment in businesses that have a demand for personnel with personal computer skills. Students receive a general background in computer operations and extensive training using productivity software necessary to support the electronic office and business.

The Microsoft Office Specialist emphasizes the development and expertise in Microsoft Office applications of Word, Excel, Access, PowerPoint and Outlook. This certificate can be used as a stepping stone to the Help Desk and Technical Support Certificate or the Information Systems Technology AAS degree program. *Note: Students can earn the Office Applications Specialist Letter of Recognition along with this certificate.*

Range of Occupations

- Applications software designer
- Office Manager
- Administrative Assistant
- Microsoft Office Certified Application Specialist trainer
- Personal computer specialist

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 23 credits

- BPA 162 - Business Communications 3 *credit hours*
- CTA 111 - Personal Computer Word Processing Applications 4 *credit hours*
- CTA 112 - Personal Computer Presentation Graphics Applications 4 *credit hours*

- CTA 113 - Personal Computer Information Management Applications *4 credit hours*
- CTA 115 - Personal Computer Database Management Systems *4 credit hours*
- CTA 116 - Personal Computer Spreadsheet Applications *4 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Provide user training in office productivity application software, such as Microsoft Excel, PowerPoint, Word, and Access.
2. Prepare business documents using advanced word processing features in a word processing application such as Microsoft Word.
3. Develop complex workbooks using a spreadsheet application such as Microsoft Excel.
4. Create advanced relational databases using application software such as Microsoft Access.
5. Produce engaging presentations using slide presentation software such as Microsoft PowerPoint.
6. Integrate office productivity applications to meet multi-faceted business needs.
7. Develop technical computer information systems solutions in the workplace.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Computer Information Systems - Personal Computer Specialist, Help Desk Specialist Option (certificate)

Official Title of Certificate: Computer Information Systems - Personal Computer Specialist - Help Desk Specialist Option, Certificate

Award: Certificate

Code: CRT.CIS.HELP-DESK

Total Credit Hours: A minimum of 29

Visit www.aacc.edu to learn more about the Computer Information Systems Department

Purpose: To prepare students for employment in businesses that have a demand for personnel with personal computer skills. Students receive a general background in computer operations and applications using software to support the electronic office and business.

The Help Desk Specialist Option (code CRT.CIS.HELP-DESK) emphasizes microcomputer support services and Help Desk analysis for end users. *Note: Students can earn the Office Applications Specialist Letter of Recognition along with this certificate.*

Range of Occupations

- Applications software designer
- Help desk specialist/analyst
- Help desk technologist
- Microsoft Office Certified Application Specialist trainer
- Personal computer specialist

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 29 credits

- CTA 105 - Theory and Troubleshooting Microcomputers 1 *3 credit hours*
- CTA 111 - Personal Computer Word Processing Applications 4 *credit hours*
- CTA 112 - Personal Computer Presentation Graphics Applications 4 *credit hours*
- CTA 113 - Personal Computer Information Management Applications 4 *credit hours*
- CTA 115 - Personal Computer Database Management Systems 4 *credit hours*
- CTA 116 - Personal Computer Spreadsheet Applications 4 *credit hours*
- CTA 120 - Help Desk Concepts 3 *credit hours*
- CTP 103 - Theories and Applications of Digital Technology 3 *credit hours*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Computer Information Systems - Scientific Programming Option (certificate)

Official Title of Certificate: Computer Information Systems - Scientific Programming Option, Certificate

Award: Certificate

Code: CRT.CIS.SCI-PROG

Total Credit Hours: A minimum of 22

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: Acquire or update software design and programming skills. Develop skills in software engineering, programming languages and the UNIX/LINUX operating system. Experienced computer programmers and technicians may gain skills in advanced high-level languages and programming environments.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 22-24 credits

- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 credit hours
Students entering the option with technical expertise beyond the level of this course are encouraged to meet with the CTP department chair to select a more appropriate course.
- CTS 120 - Introduction to Linux 4 credit hours
- CTP 150 - Computer Science 1 4 credit hours
Students who have completed CSI 161 and CSI 162 are not required to take CTP 150. CSI 161 and CSI 162 will not be offered after spring 2015.
- CTP 250 - Computer Science 2 4 credit hours
- CTP electives (approval of CTP department chair) 6-8 credit hours
Students may want to consider technology areas such as: UNIX/LINUX, mobile device programming, the Internet and data communications/networking or programming in Java.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Computer Network Management - UNIX/LINUX System Administrator (certificate)

Official Title of Certificate: Computer Network Management-UNIX/LINUX System Administrator, Certificate

Award: Certificate

Code: CRT.CIS.UNX-LNX-SYS

Total Credit Hours: 16

Visit www.aacc.edu to learn more about the Cybersecurity, Networking and Digital Forensics Department

Purpose: An approved option under the computer network management associate degree program. Prepares students for employment as administrators of UNIX/LINUX system installations. Provides an introduction to computing, programming, data communications, security and other principal aspects of a typical UNIX/LINUX system administrator's job. Includes extensive hands-on training.

Related Industry Certifications

This program provides partial foundation for the following industry recognized certifications: Network+ (CompTIA), Security+ (CompTIA), and Linux+ (CompTIA) industry certification exams.

Range of Occupations

- UNIX/LINUX applications system designer/development
- UNIX/LINUX programmer
- UNIX/LINUX system administrator

Additional Certificate Requirements

Students must satisfy the prerequisites for each course in the certificate or have permission from the academic chair to take each course.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 16 credits

- CTS 110 - Network Essentials *4 credit hours*
- CTS 120 - Introduction to Linux *4 credit hours*
- CTS 140 - Network Security Fundamentals *4 credit hours*
- CTS 222 - UNIX/LINUX System Administration *4 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Install UNIX/LINUX servers.
2. Configure UNIX/LINUX operating systems.
3. Maintain UNIX/LINUX operating systems.
4. Manage and monitor UNIX/LINUX servers.
5. Troubleshoot UNIX/LINUX servers.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Information Assurance and Cybersecurity (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Computer Science - Database Development (certificate)

Official Title of Certificate: Computer Science - Database Development, Certificate

Award: Certificate

Code: CRT.CPS.DATA-DEV

Total Credit Hours: A minimum of 26

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: Prepares students for employment in the field of database development by acquiring or updating database development skills. This option develops skills in the SQL language syntax and usage, Microsoft Access, Oracle and provides experience in designing and implementing a production level, industrial grade database.

Additional Program Requirements

A grade of C or better is required in each Database Development certificate course requirement

Range of Occupations

- Database administrator
- Database analyst
- Software developer

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 26 credits

- CTA 115 - Personal Computer Database Management Systems *4 credit hours*
- CTP 115 - Introductory Object-Oriented Program Analysis and Design *4 credit hours*
- CTP 118 - Web Development using HTML/CSS *4 credit hours*
- CTP 130 - Programming in PHP/MySQL *3 credit hours*
- CTP 145 - Relational Databases and SQL *4 credit hours*
- CTP 147 - PL-SQL Programming *3 credit hours*
- CTP 150 - Computer Science 1 *4 credit hours*

Students entering the program with technical expertise beyond the level of CTP 103 and/or CTP 115 should meet with the Computer Science Department Chair.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Review database concepts and data models.
- Apply normalization of databases.
- Employ design and implementation using structured query language.
- Distinguish database connectivity with web services.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Database Management Systems - Database Development (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Computer Science Transfer - Computer Science (A.S.)

Official Title of Major: Computer Science Transfer - Computer Science, A.S.

Award: Associate of Science degree, A.S.

Total Credit Hours: 60

Code: AS.CPS.COMP-SCI

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: This transfer program provides a solid computer science and mathematics foundation for those students transferring to four-year colleges and universities to pursue a bachelor's degree in computer science. Students who have already selected a transfer college/university should consult with the Computer Science Department Chair to plan their program and to keep abreast of program changes and updates to the articulation agreements between Anne Arundel Community College and the transfer institutions.

Additional Degree Requirements

A grade of C or better is required in each Computer Science Transfer course requirement.

Related Majors

Students may wish to also review requirements for the similar majors linked below.

- Computer Science Transfer - Information Systems (A.S.)
- Computer Science Transfer - Data Science (A.S.)

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 33 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*

ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

Two different disciplines required. See General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 8 credits

Two lab sciences required. See General Education Biological and Physical Sciences Requirements for a list of approved courses. Students should check with their transfer institutions for specific course requirements.

Mathematics: 4 credits

- MAT 191 - Calculus and Analytic Geometry 1 4 credit hours

Social and Behavioral Sciences: 6 credits

Two different disciplines required. See General Education Social and Behavioral Sciences Requirements for a list of approved courses. Students should check their transfer institutions for specific course requirements.

Additional General Education Requirements: 3 credits

It may be necessary to take additional general education courses to meet the total credit requirements for this program. Courses may be selected from any general education category including arts and humanities, social and behavioral sciences, biological and physical sciences, English composition, technology, and wellness. These general education courses may simultaneously meet the diversity requirements. A list of all general education courses can be found at General Education and Diversity, Technology and Wellness Requirements.

- **Wellness General Education course** 3 credit hours
See General Education Wellness Requirement for list of approved courses.

Program Requirements: 12 credits

Transfer institutions may require a B or better in both CTP 150 and CTP 250.

- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 credit hours
- CTP 150 - Computer Science 1 4 credit hours
- CTP 250 - Computer Science 2 4 credit hours

Area of Concentration Requirements: 15 credits

- MAT 192 - Calculus and Analytic Geometry 2 4 credit hours
- MAT 202 - Linear Algebra 4 credit hours
- MAT 250 - Introduction to Discrete Structures 3 credit hours
- **Elective** 4 credit hours, see the Computer Science Department Chair for recommendations

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by CTP 115.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Design, correctly implement, and document solutions to computational problems
2. Analyze a problem, and identify the computing requirements appropriate to its solution.
3. Use current techniques, skills, and tools necessary for computing practice.
4. Apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of software.
5. Explain the complete System Development Lifecycle from planning and problem analysis through implementation and documentation.
6. Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Computer Science Transfer - Information Systems (A.S.)

Transferring Credits to a Maryland Public Four-Year School

Maryland public four-year colleges and universities accept a minimum of 60 and as many as 70 credits earned toward an associate degree from a Maryland public community college. Students planning to transfer should consult with an AACC academic and transfer advisor; and are advised to obtain permission from the four-year college or university when planning to transfer credits beyond the minimum degree requirements at AACC. More than 70 credits earned at AACC may be transferred if outlined within an established transfer agreement. Current transfer agreements can be found on the AACC Transfer Partners webpage.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Computer Science Transfer - Data Science (A.S.)

Official Title of Major: Computer Science Transfer - Data Science, A.S.

Award: Associate of Science degree, A.S.

Total Credit Hours: 60

Code: AS.CPS.COMP-DATA

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: This transfer program provides a solid computer science and mathematics foundation for those students transferring to four-year colleges and universities to pursue a bachelor's degree in computer science. Students who have already selected a transfer college/university should consult with the Computer Science Department Chair to plan their program and to keep abreast of program changes and updates to the articulation agreements between Anne Arundel Community College and the transfer institutions.

Additional Degree Requirements

A grade of C or better is required in each Computer Science Transfer course requirement.

Related Majors

Students may wish to also review requirements for the similar majors linked below.

- Computer Science Transfer - Information Systems (A.S.)
- Computer Science Transfer - Computer Science (A.S.)

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 32-33 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

Two different disciplines required. Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 8 credits

Two lab sciences required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses. Students should check with their transfer institutions for specific course requirements.

Mathematics: 3-4 credits

Recommended for Computer Science Transfer: MAT 191.

Recommended for Data Science Transfer: MAT 135.

- MAT 135 - Statistics 3 *credit hours*
OR
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*

Social and Behavioral Sciences: 6 credits

Two different disciplines required. Refer to General Education Social and Behavioral Sciences Requirements for a list of approved courses. Students should check their transfer institutions for specific course requirements.

Additional General Education Requirements: 3 credits

It may be necessary to take additional general education courses to meet the total credit requirements for this program. Courses may be selected from any general education category including arts and humanities, social and behavioral sciences, biological and physical sciences, English composition, technology, and wellness. These general education courses may simultaneously meet the diversity requirements. A list of all general education courses can be found at General Education and Diversity, Technology and Wellness Requirements.

- **Wellness General Education course** 3 credit hours

Refer to General Education Wellness Requirement for list of approved courses.

Program Requirements: 12 credits

Transfer institutions require a B or better in both CTP 150 and CTP 250.

- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 credit hours
- CTP 150 - Computer Science 1 4 credit hours
- CTP 250 - Computer Science 2 4 credit hours

Computer Science Transfer Area of Concentration Requirements: 15 credits

- MAT 192 - Calculus and Analytic Geometry 2 4 credit hours
- MAT 202 - Linear Algebra 4 credit hours
- MAT 250 - Introduction to Discrete Structures 3 credit hours
- **Elective** 4 credit hours, see the Computer Science Department Chair for recommendations

Data Science Transfer Area of Concentration Requirements: 16 credits

- CTP 140 - Database Foundations, SQL/NoSQL 3 credit hours
- CTP 160 - Python 3 credit hours
- CTP 214 - Data Visualization and Data Wrangling 3 credit hours
- CTP 260 - Python for Data Science 3 credit hours
- **Choose ONE of the following courses:** MAT 235 - Introduction to Data Science 4 credit hours
- CTP 210 - Statistical Programming Using R 4 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by CTP 115.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Design, correctly implement, and document solutions to computational problems
2. Analyze a problem, and identify the computing requirements appropriate to its solution.
3. Use current techniques, skills, and tools necessary for computing practice.
4. Apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of software.
5. Explain the complete System Development Lifecycle from planning and problem analysis through implementation and documentation.
6. Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Computer Science Transfer - Information Systems (A.S.)

Official Title of Major: Computer Science Transfer - Information Systems, A.S.

Award: Associate of Science, A.S.

Total Credit Hours: 60

Code: AS.CPS.INFO-SYS

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: This transfer program provides a solid computer science and mathematics foundation for those students transferring to four-year colleges and universities to pursue a bachelor's degree in computer science. Students who have already selected a transfer college/university should consult with the Computer Science Department Chair to plan their program and to keep abreast of program changes and updates to the articulation agreements between Anne Arundel Community College and the transfer institutions.

Additional Degree Requirements

A grade of C or better is required in each Computer Science Transfer course requirement.

Related Majors

Students may wish to also review requirements for the similar majors linked below.

- Computer Science Transfer - Computer Science (A.S.)
- Computer Science Transfer - Data Science (A.S.)

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 32 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

Two different disciplines required. See General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 8 credits

Two lab sciences required. See General Education Biological and Physical Sciences Requirements for a list of approved courses. Students should check with their transfer institutions for specific course requirements.

Mathematics: 3 credits

- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 *credit hours*

Social and Behavioral Sciences: 6 credits

Two different disciplines required. See General Education Social and Behavioral Sciences Requirements for a list of approved courses. Students should check their transfer institutions for specific course requirements.

Information Systems students are encouraged to take ECO 211.

Additional General Education Requirements: 3 credits

- **Wellness General Education course** 3 *credit hours*
See General Education Wellness Requirement for list of approved courses.

Program Requirements: 12 credits

Transfer institutions require a B or better in both CTP 150 and CTP 250.

- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 *credit hours*
- CTP 150 - Computer Science 1 4 *credit hours*

- CTP 250 - Computer Science 2 4 *credit hours*

Area of Concentration: 16 credits

- BPA 201 - Financial Accounting 3 *credit hours*
- BPA 202 - Managerial Accounting 3 *credit hours*
- CTP 160 - Python 3 *credit hours*
- CTP 200 - Systems Analysis and Design 4 *credit hours*
- **Elective** 3 *credit hours, see the Computer Science Department Chair for recommendations*

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by CTP 115

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Design, correctly implement, and document solutions to computational problems
2. Analyze a problem, and define the computing requirements appropriate to its solution.
3. Use current techniques, skills, and tools necessary for computing practice.
4. Apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of software.
5. Apply the complete System Development Lifecycle from planning and problem analysis through implementation and documentation.
6. Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.

This program aligns with all the college's core competencies.

Transferring Credits to a Maryland Public Four-Year School

Maryland public four-year colleges and universities accept a minimum of 60 and as many as 70 credits earned toward an associate degree from a Maryland public community college. Students planning to transfer should consult with an AACC academic and transfer advisor; and are advised to obtain permission from the four-year college or university when planning to transfer credits beyond the minimum degree requirements at AACC. More than 70 credits earned at AACC may be transferred if outlined within an established transfer agreement. Current transfer agreements can be found on the AACC Transfer Partners webpage.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Construction Management (A.A.S.)

Official Title of Major: Construction Management, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.ACH.CONSTR-MGT

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: Training in the organization and management of both large and small construction projects. Develop skills in the areas of project management, construction estimating, materials and methods of construction, and construction documentation. Teaches and integrates principles of business management as applied to construction technology.

Range of Occupations

- Construction manager
- Estimator
- Foreman
- Inspector
- Owner's field representative
- Project manager
- Superintendent

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 21 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- COM 111 - Fundamentals of Oral Communication 3 *credit hours* **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours*

Biological and Physical Sciences: 3 credits

Recommend PHY 111 - Fundamentals of Physics 1 for those students transferring. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

- MAT 145 - Precalculus 1 3 *credit hours*

Social and Behavioral Sciences: 3 credits

- SOC 111 - Introduction to Sociology 3 *credit hours*

Additional General Education requirements: 3 credits

- CTA 100 - Computing and Information Technology 3 *credit hours* **OR**
- CTP 103 - Theories and Applications of Digital Technology 3 *credit hours*

Program Requirements: 39 credits

- ACH 111 - Graphic Communication 1: Composition and Delineation 3 *credit hours*
- ACH 121 - Construction Technology 1 3 *credit hours*
ACH 111 and ACH 121 are corequisites.
- ACH 122 - Construction Technology 2 3 *credit hours*
- ACH 216 - Construction Management 4 *credit hours*
- ACH 218 - Construction Operations 4 *credit hours*
- ACH 219 - Construction Contract Administration 3 *credit hours*
- ACH 230 - Cost Estimating for Construction 4 *credit hours*
- ACH 242 - Environmental Systems for Design 3 *credit hours*
- ACH 245 - Digital Technologies 1 3 *credit hours*
- BPA 162 - Business Communications 3 *credit hours*

Please choose 2 BPA electives from the list below:

- BPA 106 - Introduction to Project Management 3 *credit hours*
- BPA 120 - Small Business Management 3 *credit hours*
- BPA 142 - Principles of Management 3 *credit hours*
- BPA 235 - Introduction to Transportation and Logistics 3 *credit hours*
- LGS 253 - Business Law 1 3 *credit hours*
(formerly crosslisted as BPA 253 - Business Law I)

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Satisfied by CTA 100 or CTP 103.

Wellness Requirement

Satisfied by ACH 242.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Interpret single and multi-view drawings.
2. Illustrate visually and orally.
3. Assemble building materials and/or systems.
4. Generate the construction process.
5. Employ appropriate technology.
6. Apply building codes and regulations.
7. Assess environmental, health, safety and welfare issues.

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Architecture and Interior Design - Construction Management (certificate)
- Architecture and Interior Design - Construction Management Entrepreneurship (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Creative Writing (lor)

Official Title of Letter: Creative Writing, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: A minimum of nine

Purpose: This course sequence is designed for students who plan on majoring in another subject but wish to display a concentrated interest in creative writing, or who are interested in personal enrichment in this area.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Degree/Award Requirements

Award Requirements

Completion of each of the required courses with a grade of C or better. Students must apply to the Records and Registration office for the letter of recognition after they have completed the requirements.

Requirements: 9-11 credits

- ENG 200 - Introduction to Creative Writing *3 credit hours*
- List A *6 credit hours*
- List B (optional) *1-2 credit hours*

List A

- ENG 201 - Creative Writing: Beginning Fiction Workshop *3 credit hours*
- ENG 202 - Creative Writing: Beginning Poetry Workshop *3 credit hours*
- ENG 203 - Creative Writing: Writing for the Stage and Screen Workshop *3 credit hours*
- ENG 204 - Creative Writing: Beginning Creative Nonfiction Workshop *3 credit hours*

List B (Optional)

- ENG 275 - Creative Writing: Literary Publishing Practicum - Working on Amaranth *1 credit hour*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Culinary Arts (certificate)

Official Title of Certificate: Culinary Arts, Certificate

Award: Certificate

Code: CRT.HRM.CUL-ART

Total Credit Hours: 21

Visit www.aacc.edu to learn more about the Hotel, Culinary Arts and Tourism Institute

Purpose: Prepares students for employment in the hospitality industry such as in a restaurant or hotel. The Culinary Arts Certificate prepares students for intermediate-level food preparation positions in a variety of hospitality industries, such as hotels, clubs, airlines, cruise ships, or restaurants.

Range of Occupations

- Banquet cook
- Cook
- Lead cook

Additional Program Requirements:

Students are required to wear an approved chef uniform for production classes. See course description for specifics.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 21 credits

- HRM 205 - Cooking Techniques 2 3 *credit hours*
- HRM 220 - Garde Manger 3 *credit hours*
- HRM 223 - International Cuisine 3 *credit hours*
- HRM 225 - Restaurant Production and Simulation 3 *credit hours*
- HRM 232 - World Culture and Cuisine: A Social Science Perspective 3 *credit hours*
- HRM 260 - Purchasing and Cost Controls 3 *credit hours*
- HRM 275 - Internship in Hotel/ Restaurant Management 3 *credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. **Introduction to the Hospitality and Baking and Pastry Industry:** Develop an understanding of the hospitality industry and career opportunities in the field. Investigate trade publications and professional organizations appropriate for continuing education. Become familiar with the organizational structure and basic functions of departments within hospitality and food service establishments.
2. **Food Safety:** Apply and evaluate safe, sanitary procedures, habits, and behaviors in hotel and restaurant facilities.
3. **Business and Math Skills:** Perform mathematical functions related to foodservice operations.
4. **Food Preparation:** Develop skills in knife, tool, and equipment handling and apply principles of food preparation/basic baking of a variety of products. Operate equipment safely and correctly, to apply knowledge of laws and regulations relating to safety and sanitation.
5. **Advanced Food Preparation:** Develop skills in producing a variety of cold food products. Prepare items appropriate for buffet presentation, including decorative pieces. Apply the principles of menu planning and layout to the development of menus for a variety of types of facilities and services.
6. **Purchasing and Receiving:** Apply concepts to lower costs and improve quality of ingredients. Reduce risk and ensure the security of supply and manage relationships with purveyors and improve quality of ingredients.
7. **Nutrition:** Describe the characteristics, functions, and food sources of major nutrients and how to maximize nutrient retention in food preparation and storage. Apply the principles of nutrient needs throughout the life cycle to menu planning and food preparation.
8. **Customer Service:** Identify customer service and guest relations standards and policies that must be in place for the successful operation of a hotel and restaurant.
9. **Environmental Sustainability:** Use knowledge of best practices to further sustainability (economic, environmental, and cultural/social) in the industry (sustainability)
10. **Leadership and Human Relationships:** Demonstrate knowledge and skills in a practical event environment.
11. **Multicultural Perspectives:** Demonstrate knowledge of multicultural perspectives to meet the needs of the guest and employees (customer service)

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Cyber Technology (certificate)

Official Title of Certificate: Cyber Technology, Certificate

Award: Certificate

Code: CRT.CIS.CYBER-TECH

Total Credit Hours: 27

Visit www.aacc.edu to learn more about the Cybersecurity, Networking and Digital Forensics Department

Additional Program Requirements

A grade of C or better is required in each Cyber Technology certificate course requirement.

Purpose: Prepares students for entry-level jobs in Customer Service and Technical Support. Gain the skills and knowledge to perform basic troubleshooting of computer systems and networks. Acquire in-depth knowledge of TCP/IP, Cisco IOS, and experience configuring Cisco routers and switches.

Created by five member colleges of the National STEM (Science, Technology, Engineering and Mathematics) Consortium with funding from a U.S. Department of Labor Trade Adjustment Assistance Community College and Career training (TAACCCT) grant.

Related Industry Certifications

This program provides partial foundation for the following industry recognized certifications: A+ (CompTIA), Network+ (CompTIA), Security+ (CompTIA) and CCNA (Certified Cisco Network Associate).

Range of Occupations

- Computer User Support Specialist
- Help Desk Representative
- Technical Support Specialist
- Network Technician

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 27 credits

- CTA 105 - Theory and Troubleshooting Microcomputers 1 3 *credit hours*
- CTA 205 - Theory and Troubleshooting Microcomputers 2 3 *credit hours*
- CTS 110 - Network Essentials 4 *credit hours*
- CTS 140 - Network Security Fundamentals 4 *credit hours*
- CTS 130 - Networking 1 4 *credit hours*
- CTS 131 - Networking 2 4 *credit hours*
- CTS 230 - Networking 3 4 *credit hours*
- STM 213 - Professional Skills for STEM 1 *credit hour*
- OR**
- CYB 270 - Cyber Capstone 1 *credit hour*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate knowledge of "knowledge base" capabilities in identifying the solutions to less common and more complex system problems [Knowledge Management].
2. Demonstrate knowledge of disaster recovery and continuity of operations plans [Incident Management].
3. Demonstrate knowledge of measures or indicators of system performance and availability [Information Technology Performance Assessment].
4. Demonstrate knowledge of systems administration concepts [Operating Systems].
5. Demonstrate knowledge of the operations and processes for diagnosing common or recurring system problems [Systems Life Cycle].
6. Demonstrate knowledge of the type and frequency of routine maintenance needed to keep equipment functioning properly [Systems Life Cycle].
7. Conduct open source research for troubleshooting novel client-level-problems [Knowledge Management].
8. Identify possible causes of degradation of system performance or availability and initiating actions needed to mitigate this degradation [System Life Cycle].
9. Test and configure network workstations and peripherals [Network Management].
10. Demonstrate skill in the basic operation of computers [Computer Skills].
11. Use the appropriate tools for repairing software, hardware, and peripheral equipment of a system [Computers and Electronics].
12. Demonstrate knowledge of basic physical computer components and architectures, including the functions of various components and peripherals (e.g., central processing units (CPUs), network interface cards (NICs), data storage) [Computers and Electronics].
13. Demonstrate knowledge of electronic devices (e.g., computer systems/components, access control devices, digital cameras, electronic organizers, hard drives, memory cards, modems, network components, printers, removable storage devices, scanners, telephones, copiers, credit card skimmers, facsimile machines, global positioning systems (GPSs)) [Hardware].
14. Demonstrate knowledge of network security architecture concepts, including topology, protocols, components, and principles (e.g., application of defense in-depth) [Information Systems/Network Security].
15. Identify the risks and threats to an organization's data and providing a structured way of addressing how to safeguard these critical electronic assets.
16. Demonstrate a systems approach to critical thinking.
17. Demonstrate effective professional communication.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Cybercrime (A.A.S.)

Official Title of Major: Cybercrime, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.LEN.CYBR-CRME

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

Purpose: Prepares students for careers in the area of criminal investigation and cybercrime or to meet requirements for promotion and additional career responsibility. Provides students with an educational opportunity to earn an Associate of Applied Science degree in cybercrime. Prepares students with a continuous and thorough accumulation of knowledge in cybercrime prevention, criminal investigation and evidentiary presentation.

Students who have career interests in an area of criminal justice should consult with one of the Homeland Security and Criminal Justice Institute faculty to assure specific career goals are met.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- CTP 194 - Ethics and the Information Age 3 *credit hours*

Biological and Physical Sciences: 3 credits

See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

- MAT 133 - Finite Mathematics 3 *credit hours*
- OR**
- MAT 135 - Statistics 3 *credit hours*

Social and Behavioral Sciences: 3 credits

- SOC 111 - Introduction to Sociology 3 *credit hours* **OR**
- PSY 111 - Introduction to Psychology 3 *credit hours*
SOC 111 satisfies the diversity requirement.

Additional General Education requirements: 6 credits

- CTP 103 - Theories and Applications of Digital Technology
This course meets a General Education Technology Requirement.
- **Wellness Requirement** 3 *credit hours*
See General Education Wellness Requirements for a list of approved courses.

Program Requirements: 36 credits

- CJS 111 - Introduction to Criminal Justice 3 credit hours
- CTS 107 - Cyber Essentials 3 credit hours
- CJS 170 - Digital Forensics 1 3 credit hours
- CTS 110 - Network Essentials 4 credit hours
- CTS 140 - Network Security Fundamentals 4 credit hours
- CJS 206 - Cybercrime 3 credit hours
- CJS 207 - Digital Forensics 2 4 credit hours
- CTS 240 - Advanced Network Defense 4 credit hours **OR**
- CTS 242 - Network Intrusion Detection and Penetration Testing 4 credit hours
- CJS 222 - Investigation and Criminalistics 4 credit hours
- **CJS, CTA, CTP, CTS or HLS elective 4 credit hours**

Diversity Requirement

Students may satisfy the diversity requirement simultaneously as they satisfy the social and behavioral sciences (with SOC 111) or biological and physical sciences or wellness general education requirements.

Technology Requirement

Satisfied by CTP 103.

Wellness Requirement

All students in associate degree programs must satisfy the wellness requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Describe and explain the foundational theoretical concepts and history of cybercrime in the U.S. and abroad.
2. Explain cybercrime techniques used to compromise government and private networks.
3. Describe the basic components of computer technology, to include hardware, software, and network systems.
4. Explore and develop career paths in the field of cybercrime and cybersecurity.
5. Outline a computer forensic investigation.
6. Examine the interconnected roles between federal, state, and local law enforcement to investigate and apprehend cybercriminals.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Cybercrime (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Cybercrime (certificate)

Official Title of Certificate: Cybercrime, Certificate

Award: Certificate

Code: CRT.LEN.CYBR-CRME

Total Credit Hours: 31

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

Purpose: Prepares students for careers in the area of criminal investigation and cybercrime or to meet requirements for promotion and additional career responsibility. Provides students with an educational opportunity to earn a certificate in cybercrime. Prepares students with a continuous and thorough accumulation of knowledge in cybercrime prevention, criminal investigation and evidentiary presentation.

Students who have career interests in an area of criminal justice should consult with one of the Homeland Security and Criminal Justice Institute faculty to assure specific career goals are met.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 31 credits

- CJS 111 - Introduction to Criminal Justice *3 credit hours*
- CTP 103 - Theories and Applications of Digital Technology *3 credit hours*
- CTS 107 - Cyber Essentials *3 credit hours*
- CTS 110 - Network Essentials *4 credit hours*
- CTS 140 - Network Security Fundamentals *4 credit hours*
- CJS 170 - Digital Forensics 1 *3 credit hours*
- CJS 206 - Cybercrime *3 credit hours*
- CJS 207 - Digital Forensics 2 *4 credit hours*
- CJS 222 - Investigation and Criminalistics *4 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Describe and explain the foundational theoretical concepts and history of cybercrime in the U.S. and abroad.
2. Explain cybercrime techniques used to compromise government and private networks.
3. Describe the basic components of computer technology, to include hardware, software, and network systems.
4. Explore and develop career paths in the field of cybercrime and cybersecurity.
5. Outline a computer forensic investigation.
6. Examine the interconnected roles between federal, state, and local law enforcement to investigate and apprehend cybercriminals.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Cybercrime (A.A.S.)

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Data Literacy (certificate)

Official Title of Certificate: Data Literacy, Certificate

Award: Certificate

Code: CRT.ECO.DATA-LTRCY

Total Credit Hours: 18

Visit www.aacc.edu to learn more about the Economics Department

Purpose: Provides functional skills and literacies in simple data analysis within a common statistical software package. Introduces advanced techniques such as binary variables and logistic regression and prepares students to read and interpret results using those techniques. Major emphasis is on the work before and after an analysis, such as proposing a question, collecting data, interpreting results, and applying findings to improve decision making.

This program is intended for students already possessing an Associate's or Bachelor's degree who seek a career-boosting credential in the growing field of analytics. Data science training has grown and become very specific, so most certificates, including this one, introduce the field. They are unlikely to lead to a position with the title "data scientist" or "analyst." However, as data has become a more important piece of nearly all business decisions, the exposure to this element provides competencies and training that provide an edge over other job candidates, such as for acquiring or advancing in managerial positions.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18 credits

- CTA 115 - Personal Computer Database Management Systems *4 credit hours*
- ECO 232 - Business Statistics *3 credit hours*
- ECO 233 - Data, Sampling, and Analytics *3 credit hours*
- ECO 270 - Data and Analysis Project Seminar *2 credit hours*

Electives

Choose two courses (6 credit hours) from the following list. Substitutions allowed with permission of the department chair of economics. Students are advised to choose courses related to their career goals. Students should work with current employers or faculty members to choose beneficial courses from this list.

- BPA 126 - Advertising and Sales Promotion 3 credit hours
- BPA 127 - Digital Marketing and Analytics 3 credit hours
- BPA 142 - Principles of Management 3 credit hours
- BPA 171 - Principles of Supervision 3 credit hours
- BPA 172 - Human Resource Management 3 credit hours
- CJS 113 - Penology 3 credit hours
- CJS 135 - Organized Crime 3 credit hours
- CJS 260 - Terrorism/Counterterrorism 3 credit hours
- COM 141 - Group Communication and Leadership 3 credit hours
- COM 230 - Persuasive Message Strategies 3 credit hours
- ECO 211 - Principles of Economics 1 3 credit hours
- ECO 212 - Principles of Economics 2 3 credit hours
- ESI 231 - Introduction to Social Entrepreneurship and Nonprofit Management 3 credit hours
- HLS 111 - Introduction to Homeland Security 3 credit hours
- HLS 112 - National Security Law 3 credit hours
- HLS 113 - Drugs, Addiction, Corruption and Crime 3 credit hours
- HLS 114 - Maryland and Terrorism 3 credit hours
- HLS 211 - Intelligence Analysis and Security Management 3 credit hours
- HLS 212 - Survey of Weapons of Mass Destruction 3 credit hours
- HLS 213 - Transportation and Border Security 3 credit hours
- HRM 251 - Restaurant Management 3 credit hours
- HRM 253 - Catering Management 3 credit hours
- HRM 256 - Hotel Property Management 3 credit hours
- HRM 260 - Purchasing and Cost Controls 3 credit hours
- PBH 101 - Introduction to Public Health 3 credit hours
- PBH 102 - Introduction to Epidemiology 3 credit hours
- PBH 105 - Essentials of Health Behavior 3 credit hours
- PBH 202 - Emerging Public Health Issues 3 credit hours

Program Outcomes

Upon successful completion of this certificate, students will be able to:

1. Compose questions about an action or process that can be answered with the help of data and data analysis.
2. Determine necessary characteristics of a data set and its variables to address a given question related to the chosen elective coursework.
3. Determine what questions related to the chosen elective courses could be addressed with a given data set.
4. Manage data sets as needed to calculate descriptive statistics, construct tables or graphs, and perform hypothesis tests.
5. Use statistical software to perform hypothesis tests and estimate linear regression models.
6. Apply results of reports including hypothesis tests, multivariate regressions, and logistic regressions to situations related to the chosen elective coursework.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Database Administration (lor)

Official Title of Letter: Database Administration, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: 10

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: Prepares students for employment in the field of database administration by acquiring or updating database administrator skills. This option develops skills in the SQL language syntax and usage, primary roles and responsibilities of a database administrator, and provides some experience in designing and implementing a production level, industrial grade database.

Range of Occupations

- Database Administrator
- Database Analyst
- Software Developer

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Degree/Award Requirements

Award Requirements

Students must complete each of the required CTA, CTP or CTS courses with a grade of C or better. At least 50 percent of the total credit hours in the letter of recognition must be earned at AACC. Students must apply to the Records and Registration office for the letter of recognition after they have completed the requirements.

Requirements: 10 credits

- CTP 145 - Relational Databases and SQL *4 credit hours*
- CTP 147 - PL-SQL Programming *3 credit hours*
- CTP 245 - Database Administration 1 *3 credit hours*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Database Management Systems - Database Administration (A.A.S.)

Official Title of Major: Database Management Systems - Database Administration, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Total Credit Hours: 60

Code: AAS.CPS.DATABASE-ADM

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: Prepares students for careers requiring a strong background in computer technology and information systems. Covers fundamental concepts in database administration, computer technology, networking, and security. The students are eligible to sit for the following certifications: MOS Access 2013, Oracle PL/SQL Developer Certified Associate (comprised of the Oracle Database SQL Fundamentals exam and the Oracle Database Program with PL/SQL exam) and Oracle Database Administrator Certified Associate Certification (comprised of the Oracle Database SQL Fundamentals exam and the Oracle Administration exam).

Emphasizes the development of expertise in SQL syntax and usage, the development of both large and small scale databases, the roles and responsibilities of a database administrator, and the experiences in designing, implementing, monitoring, and maintaining a production level, industrial grade database. *Note: Students have the option of learning either Windows or LINUX/UNIX operating systems.*

Range of Occupations

- Database administrator (DBA)
- Database analyst
- Database manager
- Database architect
- Database engineer

Related Major

Students may wish to also review requirements for the similar major linked below.

- Database Management Systems - Database Development (A.A.S.)

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 21 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- CTP 194 - Ethics and the Information Age 3 *credit hours*
OR
- COM 111 - Fundamentals of Oral Communication 3 *credit hours*
OR
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours*

Biological and Physical Sciences: 3 credits

- BIO 135 - Principles of Nutrition 3 *credit hours*

Mathematics: 3 credits

- MAT 137 - College Algebra 3 credit hours
Or more advanced level if qualified.

Social and Behavioral Sciences: 3 credits

See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirements: 3 credits

- CTP 103 - Theories and Applications of Digital Technology 3 credit hours
This course meets the General Education Technology Requirement.

Program Requirements: 18 credits

These are the common program requirements for both areas of concentration. Students must complete all of these courses with a grade of C or better.

- CTS 107 - Cyber Essentials 3 credit hours
- CTA 115 - Personal Computer Database Management Systems 4 credit hours
- CTP 145 - Relational Databases and SQL 4 credit hours
- CTP 147 - PL-SQL Programming 3 credit hours
- CTP 200 - Systems Analysis and Design 4 credit hours

Area of Concentration Requirements: 21 credits

- CTP 245 - Database Administration 1 3 credit hours
- CTP 247 - Database Administration 2 3 credit hours
- CTS 110 - Network Essentials 4 credit hours
- CTS 120 - Introduction to Linux 4 credit hours
- **Electives** 7 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by CTP 103.

Wellness Requirement

Satisfied by BIO 135.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of the Database Administration Area of Concentration, students will be able to:

1. Review database concepts and data models.
2. Apply normalization of databases.
3. Design and implement a production level, industrial grade database using structured query language.
4. Discuss distributed database management systems.
5. Explain the use of database warehousing.
6. Examine database administration and security.

This program aligns with all the college's core competencies.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Database Management Systems - Database Development (A.A.S.)
- Computer Information Systems - Database Administration (certificate)
- Computer Science - Database Development (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Database Management Systems - Database Development (A.A.S.)

Official Title of Major: Database Management Systems - Database Development, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Total Credit Hours: 60

Code: AAS.CPS.DATABASE-DEV

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: Prepares students for careers requiring a strong background in computer technology and information systems. Covers fundamental concepts in database administration, computer technology, networking, and security. The students are eligible to sit for the following certifications: MOS Access 2016, Oracle PL/SQL Developer Certified Associate (comprised of the Oracle Database SQL Fundamentals exam and the Oracle Database Program with PL/SQL exam) and Oracle Database Administrator Certified Associate Certification (comprised of the Oracle Database SQL Fundamentals exam and the Oracle Administration exam).

Emphasizes the development of expertise in SQL syntax and usage, the development of both large and small scale databases, the experiences in designing and implementing a production level database, and the development of applications in a variety of settings that rely on back-end data stored in a database.

Range of Occupations

- Database developer
- Database architect
- Database application programmer
- Database application software designer
- Back-end developer

Related Major

Students may wish to also review requirements for the similar major linked below.

- Database Management Systems - Database Administration (A.A.S.)

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 21 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- CTP 194 - Ethics and the Information Age 3 *credit hours*
OR
- COM 111 - Fundamentals of Oral Communication 3 *credit hours*
OR
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours*

Biological and Physical Sciences: 3 credits

- BIO 135 - Principles of Nutrition 3 *credit hours*

Mathematics: 3 credits

- MAT 137 - College Algebra 3 *credit hours*
Or more advanced level if qualified.

Social and Behavioral Sciences: 3 credits

See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirements: 3 credits

- CTP 103 - Theories and Applications of Digital Technology 3 credit hours
This course meets the General Education Technology Requirement.

Program Requirements: 18 credits

Students must complete all of these courses with a grade of C or better.

- CTS 107 - Cyber Essentials 3 credit hours
- CTA 115 - Personal Computer Database Management Systems 4 credit hours
- CTP 145 - Relational Databases and SQL 4 credit hours
- CTP 147 - PL-SQL Programming 3 credit hours
- CTP 200 - Systems Analysis and Design 4 credit hours

Area of Concentration Requirements: 21 credits

- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 credit hours
- CTP 118 - Web Development using HTML/CSS 4 credit hours
- CTP 130 - Programming in PHP/MySQL 3 credit hours
- CTP 150 - Computer Science 1 4 credit hours
- **Electives** 6 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by CTP 103.

Wellness Requirement

Satisfied by BIO 135.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of the Database Development Area of Concentration, students will be able to:

1. Review database concepts and data models.
2. Apply normalization of databases.
3. Design and implement a production level database using structured query language.
4. Distinguish database connectivity with web services.

This program aligns with all the college's core competencies

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Database Management Systems - Database Administration (A.A.S.)
- Computer Information Systems - Database Administration (certificate)
- Computer Science - Database Development (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Digital Forensics (certificate)

Official Title of Certificate: Digital Forensics, Certificate

Award: Certificate

Code: CRT.CIS.DIGITAL-FRSC

Total Credit Hours: 18-19

Visit www.aacc.edu to learn more about the Cybersecurity, Networking and Digital Forensics Department

Purpose: Perform forensic investigations, incident handling and conduct incident investigations. Gain the knowledge and skills necessary to execute forensic investigations of networks, hosts and mobile devices including collecting, processing, review, analysis and production of electronic evidence using standard computer forensics and evidence handling techniques.

Range of Occupations

- Computer forensics technician
- Digital forensics specialist
- Digital forensics investigator
- Forensic support specialist
- Incident response analyst

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18-19 credits

- CTS 170 - Digital Forensics 1 *3 credit hours*
- CTS 207 - Digital Forensics 2 *4 credit hours*
- CTS 209 - Digital Forensics 3 *4 credit hours*
- Elective courses (chosen from below) *7-8 credit hours*

Elective Course Selection

Two electives must be selected from the following:

- CJS 111 - Introduction to Criminal Justice *3 credit hours*

- CTS 110 - Network Essentials *4 credit hours*
- CTS 120 - Introduction to Linux *4 credit hours*
- CTS 240 - Advanced Network Defense *4 credit hours*
- CTS 242 - Network Intrusion Detection and Penetration Testing *4 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Plan and perform digital forensic investigations including preservation, handling, analysis, and documentation of evidence
2. Use industry standard tools to access digital evidence and conduct forensic analysis
3. Relate the functionality of operating systems and networks to digital evidence
4. Apply Constitutional and case law to digital forensics investigations
5. Effectively communicate technical information

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Information Assurance and Cybersecurity (A.A.S.)
- Advanced Digital Forensics (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Digital Marketing (certificate)

Official Title of Certificate: Digital Marketing, Certificate

Award: Certificate

Code: CRT.BMT.DIGITAL-MRKT

Total Credit Hours: 18

Purpose: Participants will be trained in the basics of digital marketing. They will learn how to develop a marketing strategy for the digital realm, including web, mobile, email, search, and social media, based on consumer insight and data.

This certificate is stackable into the A.A.S. Business Management--Business Communications and A.A.S. Business Management--Advertising/Marketing areas of concentration.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18 credit hours

- ART 106 - Introduction to Digital Design *3 credit hours*
- BPA 125 - Principles of Marketing *3 credit hours*
- BPA 126 - Advertising and Sales Promotion *3 credit hours*
- BPA 127 - Digital Marketing and Analytics *3 credit hours*
- BPA 135 - Customer Service *3 credit hours*
- BPA 162 - Business Communications *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Leverage social media and other digital platforms to achieve organizational marketing objectives and sales goals.
2. Recognize how digital marketing tools drive consumer behavior.
3. Utilize digital marketing tools to develop an integrated digital marketing campaign.
4. Measure the effectiveness of digital marketing campaigns through the use of data.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Advertising/Marketing (A.A.S.)
- Business Management - Business Communications (A.A.S.)

Early Childhood Development (A.A.S.)

Official Title of Major: Early Childhood Development, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.EDU.ECD

Total Credit Hours: A minimum of 60

Visit www.aacc.edu to learn more about the Teacher Education and Child Care Institute (TEACH)

Purpose: The Associate of Applied Science (A.A.S.) degree in Early Childhood Development fulfills the state educational requirements for employment in a child care center as a teacher (senior staff), school-age staff member, and/or director. The program emphasizes the study of child development, early childhood curriculum/strategies, and administrative responsibilities, as well as requires passing a background check and completing field-based experiences in the early childhood learning environment. Individuals must meet additional state requirements regarding age and experience for employment.

Range of Occupations

- Director/teacher of before- and after-school program
- Director of child care center
- Teacher in child care center

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Entrance/Admission Requirements

Criminal Background Check

Participation in the required fieldwork experience is contingent upon satisfactory completion of the criminal background check. For complete details, see the Teacher Education and Childcare Institute section of this catalog.

General Education Requirements: 23 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- COM 111 - Fundamentals of Oral Communication 3 *credit hours* **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours*

Biological and Physical Sciences: 4 credits

- PHS 100 - General Physical Science 4 *credit hours*

Mathematics: 4 credits

- MAT 221 - Fundamental Concepts of Mathematics 1 *4 credit hours* **OR**
- MAT 222 - Fundamental Concepts of Mathematics 2 *4 credit hours*

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology *3 credit hours*

Elective: 3 credits

Recommended

- CTA 100 - Computing and Information Technology *3 credit hours*

Program Requirements: 37 credits

- EDU 131 - Children's Literature *3 credit hours*
- EDU 132 - Introduction to Early Childhood Development *3 credit hours*
- EDU 133 - Growth and Development *3 credit hours*
- EDU 135 - Children's Health, Nutrition and Safety *3 credit hours*
- EDU 214 - Introduction to Special Education *3 credit hours*
- EDU 229 - Observing and Assessing Young Children *1 credit hour*
- EDU 230 - Educator Portfolio Development *1 credit hour*
- EDU 231 - Infant/Toddler Child Care *3 credit hours*
- EDU 232 - School-Age Child Care *3 credit hours*
- EDU 235 - Child Care Administration *3 credit hours*
- EDU 239 - Quality Family and School Partnerships *1 credit hour*
- EDU 242 - Foundations of Reading and Language Arts *3 credit hours*
- EDU 247 - Early Childhood: Methods and Materials *3 credit hours*
- EDU 248 - Instructional Strategies *1 credit hour*
- ASL 111 - American Sign Language 1 *3 credit hours* (or higher) **OR**
- SPA 111 - Elementary Spanish 1 *3 credit hours*

Diversity Requirement

Satisfied by EDU 214.

Technology Requirement

Satisfied by EDU 214.

Wellness Requirement

Satisfied by EDU 135.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Describe the theories and principles of child development and learning, and apply the theories and principles to classroom teaching.

2. Identify the policies, issues, trends, and historical events in the field of early childhood education and its impact on how we work with young children today.
3. Use systematic observations, documentation, and other effective assessment techniques to inform decisions when working with young children.
4. Demonstrate knowledge of supporting, empowering and communicating with families and communities through building respectful, reciprocal relationships.
5. Demonstrate understanding of content areas and apply developmentally appropriate approaches and instructional strategies to enhance children's learning and development.
6. Identify and explain effective and developmentally appropriate models of classroom and behavior management in the early childhood classroom.
7. Identify and implement ethical guidelines and National Association for the Education of Young Children standards related to early childhood practices as an early childhood professional who advocates for sound educational practices and policies.
8. Identify the roles and responsibilities of childcare providers for children infancy-12 years old focusing on planning, curriculum, age appropriate materials and instructional methods
9. Understand and identify the leadership skills, management practices and supervisory functions required for effective administration of a childcare facility.
10. Articulate the historical, philosophical, and legal basis of services for young children with special needs and identify ways to accommodate children with diverse needs in the classroom.
11. Explain the role language plays in the acquisition of reading development and identify foundational skills to support the emergent/early reader

This program aligns with all the college's core competencies. For a full list of Core Competencies, click [here](#).

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Early Childhood Education/Early Childhood Special Education (A.A.T.)
- Elementary Education/Elementary Special Education (A.A.T.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Early Childhood Education/Early Childhood Special Education (A.A.T.)

Official Title of Major: Early Childhood Education/Early Childhood Special Education, A.A.T.

Award: Associate of Arts in Teaching (A.A.T.)

Code: AAT.EDU.ECE

Total Credit Hours: 63

Visit www.aacc.edu to learn more about the Teacher Education and Childcare Institute (TEACH)

Purpose: The Associate of Arts in Teaching (A.A.T.) degree is designed for students preparing to transfer to a four-year institution to obtain a baccalaureate degree and earn Maryland state teacher certification. The program incorporates foundation coursework in

teacher education, content coursework in a selected certification area, and a field-based experience at the appropriate level of teacher certification.

This curriculum prepares students to transfer to an early childhood education or generic special education program at a four-year college or university in the state of Maryland. The Associate of Arts in Teaching (A.A.T.) degree has been articulated with all of the transfer programs in early childhood education and generic special education in the state of Maryland. Upon completion of the A.A.T. degree, students are eligible to be admitted as an early childhood education or generic special education major at a Maryland transfer institution. The courses in this degree are not sufficient to meet all special education or inclusion course requirements for four-year teacher education programs.

Additional Degree Requirements

To earn the degree and be eligible for seamless transfer within Maryland, students must complete all required coursework and the following additional requirements:

- Students must submit either a 3.0 cumulative grade point average on a 4.0 scale; or a 2.75-2.99 cumulative grade point average on a 4.0 scale and qualifying scores on the basic skills assessment for teacher licensure as established by the State Superintendent of Schools and as approved by the State Board of Education;
- Students must complete fieldwork requirements as indicated by the Teacher Education and Child Care Institute. Participation in the required fieldwork experience is contingent upon satisfactory completion of the criminal background check. For complete details, see the Teacher Education and Childcare Institute section of this catalog.
- Students must earn a C or better in all coursework required for the degree.

Students may be required to meet additional admittance requirements at the chosen transfer institution.

The A.A.T. degrees parallel the Maryland State Department of Education grade bands:

Early Childhood Education	PreK-grade 3
Elementary Education	Grades 1-6
Secondary Academic Areas	Grades 7-12

Entrance/Admission Requirements

Criminal Background Check

Participation in the required fieldwork experience is contingent upon satisfactory completion of the criminal background check. For complete details, see the Teacher Education and Childcare Institute section of this catalog.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- HUM 101 - Introduction to Fine Arts 3 *credit hours*
- HIS 211 - United States History through the Civil War 3 *credit hours*
OR
- HIS 212 - United States History Since the Civil War 3 *credit hours*

Biological and Physical Sciences: 8 credits

- PHS 100 - General Physical Science 4 *credit hours*
- BIO 100 - Introduction to Biology 4 *credit hours*

Mathematics: 8 credits

- MAT 221 - Fundamental Concepts of Mathematics 1 4 *credit hours*
- MAT 222 - Fundamental Concepts of Mathematics 2 4 *credit hours*

Social and Behavioral Sciences: 6 credits

- PSY 111 - Introduction to Psychology 3 *credit hours*
- GEO 102 - World Regional Geography 3 *credit hours*

Program Requirements: 29 credits

- EDU 132 - Introduction to Early Childhood Development 3 *credit hours*
- EDU 133 - Growth and Development 3 *credit hours*
- EDU 135 - Children's Health, Nutrition and Safety 3 *credit hours*
- EDU 214 - Introduction to Special Education 3 *credit hours*
- EDU 242 - Foundations of Reading and Language Arts 3 *credit hours*
OR
- EDU 242H - Foundations of Reading and Language Arts - Honors 3 *credit hours*
- EDU 247 - Early Childhood: Methods and Materials 3 *credit hours*
- MAT 223 - Fundamental Concepts of Mathematics 3 4 *credit hours*
- PHS 200 - Earth and Space Science 4 *credit hours*
- PLS 111 - American Government 3 *credit hours*

Diversity Requirement

Satisfied by EDU 214.

Technology Requirement

Satisfied by EDU 214.

Wellness Requirement

Satisfied by EDU 135.

Program Outcomes

Upon successful completion of this program, students will be able to:

LO 1 Child Development and Learning in Context

Describe the theories and principles of child development and learning and apply the theories and principles to their classroom teaching in multiple cultural and societal contexts.

LO 2 Family-Teacher Partnerships and Community Connections

Demonstrate knowledge of supporting and empowering diverse families and communities through respectful, reciprocal relationships.

LO 3 Child Observations, Documentation and Assessment

Use systematic observations, documentation, and other effective assessment strategies in a responsible way to positively influence children's learning and development.

LO 4 Developmentally, Culturally, and Linguistic Appropriate Teaching Practices

Identify and practice strategies for working and advocating for families of culturally and linguistically diverse students and students with disabilities in order to facilitate a child's educational program.

LO 5 Understanding Content and Developmental Approaches

Demonstrate an understanding of content areas, including literacy, and apply developmentally appropriate approaches to enhance children's learning and development.

LO 6 Professionalism as an Early Childhood Educator

Identify and conduct themselves as early childhood professionals who model self-care and use ethical guidelines and National Association for the Education of Young Children standards related to early childhood practice, and who are advocates for sound educational practices and policies.

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Early Childhood Development (A.A.S.)
- Elementary Education/Elementary Special Education (A.A.T.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Ecosystem Restoration (certificate)

Official Title of Certificate: Ecosystem Restoration, Certificate

Award: Certificate

Code: CRT.SPM.ECOSYS

Total Credit Hours: A minimum of 28

Visit www.aacc.edu to learn more about the Biology Department

Purpose: The Ecosystem Restoration Certificate provides students, environmental professionals and natural resource managers with the knowledge base and skills needed to create, restore and enhance the diverse types of ecosystems found in Maryland.

Range of Occupations

- Environmental education and outreach tech; Environmental management systems tech; Environmental regulatory tech; Field services tech; Remediation tech; Aquatic/terrestrial habitat tech; Botany/biology tech; Ecology tech; Horticulture/landscape tech; Natural resources tech; Soil conservation tech; Stormwater management tech; Watershed management tech; Wildlife tech; Compliance officer; Permitting/licensing tech; Wastewater collection system tech; Wastewater lab tech; Hydrology tech; Water conservation tech; Water supply quality educator/trainer; Coastal zone management tech; Urban agriculture tech; Water resources tech.
- Source of information: Advanced Technology Environmental and Energy Center, 2008. Defining Environmental Technology - a report from a forum sponsored by the Advanced Technology Education Program of the National Science Foundation.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 28 credits

- BIO 103 - General Botany *4 credit hours*
- BIO 105 - General Zoology *4 credit hours*
- BIO 107 - Environmental Science *4 credit hours*
- BIO 210 - Ecological Principles and Environmental Assessment *4 credit hours*
- BIO 214 - Ecology *3 credit hours*
- BIO 215 - Restoration Ecology *3 credit hours*
- PHS 107 - Geology of Maryland *3 credit hours*
- GEO 240 - Introduction to Geographic Information Systems *3 credit hours*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Ecosystem Restoration (lor)

Official Title of Letter: Ecosystem Restoration, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: 10

Visit www.aacc.edu to learn more about the Biology Department

Purpose: The Ecosystem Restoration Letter of Recognition provide students, environmental professionals and natural resource managers with the knowledge base and skills needed to provide assistance with the implementation of projects designed to create, restore and enhance the diverse types of ecosystems found in Maryland.

Range of Occupations

- Environmental education and outreach tech; Environmental management systems tech; Environmental regulatory tech; Field services tech; Remediation tech; Aquatic/terrestrial habitat tech; Botany/biology tech; Ecology tech; Horticulture/landscape tech; Natural resources tech; Soil conservation tech; Stormwater management tech; Watershed management tech; Wildlife tech; Compliance officer; Permitting/licensing tech; Wastewater collection system tech; Wastewater lab tech; Hydrology tech; Water conservation tech; Water supply quality educator/trainer; Coastal zone management tech; Urban agriculture tech; Water resources tech.
- Source of information: Advanced Technology Environmental and Energy Center. 2008. Defining Environmental Technology - a report from a forum sponsored by the Advanced Technology Education Program of the National Science Foundation.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Degree/Award Requirements

Award Requirements

Completion of the required courses with a grade of C or better. Students must apply to the Records and Registration office for the letter of recognition after they have completed the requirements.

Requirements: 10 credits

- BIO 210 - Ecological Principles and Environmental Assessment *4 credit hours*
- BIO 214 - Ecology *3 credit hours*
- BIO 215 - Restoration Ecology *3 credit hours*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Electrical Engineering (A.S.E.)

Official Title of Major: Electrical Engineering, A.S.E.

Award: Associate of Science in Engineering degree, A.S.E.

Code: ASE.EGR.ELEC

Total Credit Hours: 65

Visit www.aacc.edu to learn more about the Engineering Department

Purpose: The ASE in Electrical Engineering degree was developed to facilitate the transfer of students from two-year to four-year electrical engineering programs, and is not considered as a terminal degree in engineering. This program is designed to transfer as a degree, rather than on a course-by-course basis, into parallel four-year electrical engineering programs in Maryland. Although this

does not guarantee admission into a four-year engineering program, most Maryland universities have expressed support for the ASE. To receive the block transfer benefit of this degree, all of the ASE degree requirements must be completed.

The first two years include foundation courses such as math, physics and chemistry, as well as introductory engineering courses. There are no technical electives within this program. All program requirements are mandatory.

Range of Occupations

- Leads to occupation of electrical engineer

Additional Degree Requirements

To complete the program in two years it is necessary to take calculus (MAT 191) in the first term. Those not ready for calculus should take pre-calculus math (MAT 151), possibly in the summer before the first regular term.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 35 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 3 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A or ENG 101 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

See General Education Arts and Humanities Requirements for a list of approved courses. These courses must be from two different disciplines and have different course prefixes.

Biological and Physical Sciences: 12 credits

- CHE 111 - General Chemistry 1 4 *credit hours*
- PHY 211 - General Physics 1 4 *credit hours*
- PHY 212 - General Physics 2 4 *credit hours*

Mathematics: 8 credits

- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*
- MAT 192 - Calculus and Analytic Geometry 2 4 *credit hours*

Social and Behavioral Sciences: 6 credits

- PSY 111 - Introduction to Psychology 3 credit hours
- Social and Behavioral Sciences general education course (except PSY) 3 credit hours
See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Program Requirements: 30 credits

See the department chair for the recommended program sequence.

- EGR 120 - Introduction to Engineering Design 3 credit hours
- EGR 235 - Circuit Theory 4 credit hours
- EGR 241 - Systems and Signals 4 credit hours
- EGR 244 - Digital Logic Design 4 credit hours
- EGR 250 - Intermediate Programming for Engineers 3 credit hours
- MAT 201 - Calculus and Analytic Geometry 3 4 credit hours
- MAT 212 - Differential Equations 4 credit hours
- PHY 213 - General Physics 3 4 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the diversity requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement. See Diversity Requirement for a list of approved courses.

Technology Requirement

Satisfied by EGR 120

Program Outcomes

Upon successful completion of this program, students will be able to:

- Function as a productive member of an engineering design team.
- Explain the relevance of professional and ethical responsibilities for engineering practice.
- Identify, formulate, and solve engineering problems.
- Use techniques, skills, and modern engineering tools necessary for engineering practice.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Electronics Engineering Technology (A.A.S.)
- Engineering Transfer (A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Electrocardiogram and Intravenous Therapy (lor)

Official Title of Letter of Recognition: Electrocardiogram and Intravenous Therapy, Letter of Recognition

Award: Letter of Recognition

Purpose: Prepares students for employment in physician's offices, hospitals, clinics, surgical centers, and wherever basic electrocardiogram and intravenous therapy skills are required. Persons who are already employed in health care may enroll in this program for career development.

Students completing the Electrocardiogram and Intravenous Therapy Technician Letter of Recognition from AACC are eligible to take the National Healthcareer Association Certified EKG Technician (CET) exam.

Entrance Requirements

1. 18 years of age or older.
2. Eligibility for ENG 101 /ENG 101A.

Program Requirements

All Electrocardiogram and Intravenous (ECG/IV) Therapy Technician students must receive a minimum grade of C in each ECG/IV Therapy Technician course. Students who receive a final grade below C in any ECG/IV Therapy Technician course will be awarded a grade of F in that course. Students practice selected procedures on each other and perform manual and automated procedures in the college laboratory.

Award Requirements

Students apply to the Records and Registration office for the Letter of Recognition after they complete the program requirements.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Requirements: 6 Credits

- MDA 118 - Intravenous Therapy 3 *credit hours*
- MDA 119 - Electrocardiography and Cardiac Diagnostics 3 *credit hours*

Electrocardiogram and Intravenous Therapy Technician (certificate)

Official Title of Certificate: Electrocardiogram and Intravenous Therapy Technician, Certificate

Award: Certificate

Code: CRT.MDA.ECG-IV

Total Credit Hours: A minimum of 16

Visit www.aacc.edu to learn more about the Electrocardiogram & Intravenous Therapy Technician Certificate program

Purpose: Prepares students for employment in physician's offices, hospitals, clinics, surgical centers, and wherever basic electrocardiogram and intravenous therapy skills are required. Persons who are already employed in health care may enroll in this program for career development.

Students completing the Electrocardiogram and Intravenous Therapy Technician Certificate from AACC are eligible to take the National Healthcareer Association Certified EKG Technician (CET) exam.

Occupational Goal: Electrocardiogram and Intravenous Therapy Technician.

Additional Program Requirements

All Electrocardiogram and Intravenous (ECG/IV) Therapy Technician students must receive a minimum grade of C in each ECG/IV Therapy Technician course. Students who receive a final grade below C in any ECG/IV Therapy Technician course will be awarded a grade of F in that course. Students practice selected procedures on each other and perform manual and automated procedures in the college laboratory.

Entrance/Admission Requirements

Entrance Requirements

1. 18 years of age or older.
2. Eligibility for ENG 101 /ENG 101A.
3. Must have a minimum adjusted grade point average (GPA) of 2.0 at this college.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 16 credits

Fall Term

- MDA 110 - Professionalism in Health Care *1 credit hours*
- MDA 111 - Laws and Ethics for Health Professionals *2 credit hours*
- MDA 113 - Medical Terminology *3 credit hours*
- MDA 112 - Pharmacology for Health Professions *3 credit hours*
- ACA 100 - Student Success Seminar *1 credit hour*

Total credit hours: 10

Spring Term

- MDA 118 - Intravenous Therapy *3 credit hours*
- MDA 119 - Electrocardiography and Cardiac Diagnostics *3 credit hours*

Total credit hours: 6

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Effectively utilize medical terminology in communicating health information.
2. Describe state law related to healthcare operations.
3. Describe federal law related to healthcare operations.
4. Discuss basic concepts of ethical standards for healthcare entities.
5. Discuss strategies for infection control.
6. Describe anatomical landmarks/sites utilized for intravenous access.
7. Diagram heart anatomy.
8. Describe heart physiology related to electrical conductivity.
9. Discuss cardiac pathology.
10. Perform electrocardiogram procedures.
11. Discuss pharmacology related to body systems.

12. Describe pharmacokinetics related to body systems.
13. Identify equipment utilized in initiating and maintaining intravenous access.
14. Articulate the purpose of a halter monitor recording.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Electronics Engineering Technology (A.A.S.)

Official Title of Major: Electronics Engineering Technology, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.EGR.ELECTRONICS

Total Credit Hours: 61

Visit www.aacc.edu to learn more about the Engineering Department

Purpose: Electronics technicians assemble, install, maintain, calibrate, and repair electronic devices and equipment. Positions available for Electronics Technology program completers are vast and wide including: defense contractors, biomedical equipment companies, electronic component assemblers, and home automation companies, to name a few.

Graduates of the program are fully-prepared to enter the workforce as an entry-level electronics technicians. Topics covered in the coursework include the fundamentals of AC and DC circuits, semiconductors, digital logic, and electronic communication circuits. Students are introduced to the topics via lecture and reinforced through hands on labs utilizing various electronic equipment necessary for the trade including: oscilloscopes, digital multi-meters, function generators and spectrum analyzers.

Range of Occupations Include:

- Electronics communications technician
- Electronics technician
- Field service technician
- Instrumentation and control technician
- Electronics assembler
- Biomedical equipment technician
- Calibration technician

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 25-26 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- COM 110 - Introduction to Interpersonal Communication 3 *credit hours*
OR
- COM 111 - Fundamentals of Oral Communication 3 *credit hours*
OR
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours*
OR
- COM 141 - Group Communication and Leadership 3 *credit hours*

Biological and Physical Sciences: 4 credits

- PHY 111 - Fundamentals of Physics 1 4 *credit hours*
OR
- PHY 211 - General Physics 1 4 *credit hours*

Mathematics: 3-4 credits

- MAT 137 - College Algebra 3 *credit hours*
OR
- MAT 145 - Precalculus 1 3 *credit hours*
OR
- MAT 151 - Accelerated Precalculus 4 *credit hours*
OR
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*

Social and Behavioral Sciences: 3 credits

Refer to General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- **Technical Requirement** 3 *credit hours*
 - *Must choose one from:*
 - CTA 100 - Computing and Information Technology
 - CTP 103 - Theories and Applications of Digital Technology
 - CTS 107 - Cyber Essentials
 - EGR 120 - Introduction to Engineering Design
 - UAS 111 - Introduction to Drone Technology
- **Wellness Requirement** 3 *credit hours*

Refer to General Education Wellness Requirements for list of approved courses.

Program Requirements: 35-36 credits

- EET 109 - Circuit Assembly Techniques 2 credit hours
- EET 130 - Introduction to Electronic Circuits 4 credit hours
- EET 150 - Semiconductors and Linear Circuits 4 credit hours
- EET 231 - Digital-Electronic Circuits 4 credit hours
- EET 255 - Metrology and Calibration 4 credit hours
- EET 260 - Electronic Communication Systems 4 credit hours
- EET 265 - Electronics Technician Capstone 3 credit hours
- MEC 130 - Programmable Logic Controllers 4 credit hours
- STM 213 - Professional Skills for STEM 1 credit hour

Technical Electives 5 - 6 credits

Students must choose Technical Electives from the list below. Students taking MAT 137 or MAT 145 must complete 6 credits of Technical Electives. Students taking MAT 151 or MAT 191 must complete 5 credits of Technical Electives.

- CTA 105 - Theory and Troubleshooting Microcomputers 1 3 credit hours
- CTA 205 - Theory and Troubleshooting Microcomputers 2 3 credit hours
- CTS 110 - Network Essentials 4 credit hours
- EET 250 - Microprocessors and Microcontrollers 4 credit hours
- ENT 241 - Computer-Aided Drafting 3 credit hours
- ENT 260 - Solid Modeling with SolidWorks 3 credit hours
- MAT 146 - Precalculus 2 3 credit hours
- MAT 191 - Calculus and Analytic Geometry 1 4 credit hours
- MEC 110 - Mechanical Systems 4 credit hours
- MEC 120 - Pneumatics and Hydraulics 4 credit hours
- MEC 140 - Introduction to Robotics 4 credit hours
- MEC 230 - Electric Motor Fundamentals 3 credit hours
- PHY 112 - Fundamentals of Physics 2 4 credit hours
- PHY 212 - General Physics 2 4 credit hours
- UAS 100 - Uncrewed Aircraft Systems Remote Pilot Ground School 1 credit hour

If UAS-111 is used to meet the Technology requirement, UAS-100 should not be taken.

With approval of the engineering department chair, one technical elective may be selected from the following areas: CTP or CTS.

Diversity Requirement

Students may satisfy the diversity requirement simultaneously as they satisfy general education requirements for arts and humanities or social and behavioral sciences. Refer to Diversity Requirement for a list of approved courses.

Technology Requirement

Satisfied by CTA 100 or CTP 103 or CTS 107 or EGR 120 or UAS 111.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply appropriate safety standards and protocols.

2. Build and analyze electronic circuits using schematic diagrams and circuit simulation software.
3. Troubleshoot electronic circuits using appropriate test equipment.
4. Perform basic soldering operations.
5. Demonstrate professional and critical thinking skills essential to workplace success.

This program aligns with all the college's core competencies.

Related Anne Arundel Community College Certificates

- Electronics Technology (certificate)
- Mechatronics Technology (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Electronics Technology (certificate)

Official Title of Certificate: Electronics Technology, Certificate

Award: Certificate

Code: CRT.EGR.ELEC-TECH

Total Credit Hours: 20 to 22 credits

Visit www.aacc.edu to learn more about the Engineering Department

Purpose: This is a flexible option that offers basic competence in electronics for those who desire to enter the job market with part-time study over three terms. It also provides formal recognition to those who are already working in the electronics industry and wish to upgrade their job skills. All credits earned in the option will apply toward an Electronics Engineering Technology Associate of Applied Science degree.

Range of Occupations

- Electronics assembler
- Electronics communications technician
- Electronics technician
- Instrumentation and control technician
- Upgraded electronic technician

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 20-22 credits

- EET 109 - Circuit Assembly Techniques *2 credit hours*
- EET 130 - Introduction to Electronic Circuits *4 credit hours*
- EET 150 - Semiconductors and Linear Circuits *4 credit hours*
- EET 231 - Digital-Electronic Circuits *4 credit hours*

Electives (2): 6-7 credits

- MAT 137 - College Algebra *3 credit hours* **OR**

- MAT 145 - Precalculus 1 3 *credit hours* **OR**
- MAT 151 - Accelerated Precalculus 4 *credit hours* **OR**
- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours* **OR**
- Any EET or MEC courses

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Electronics Engineering Technology (A.A.S.)
- Mechatronics Technology (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Elementary Education/Elementary Special Education (A.A.T.)

Official Title of Major: Elementary Education/Elementary Special Education, A.A.T.

Code: AAT.EDU.ELEM-ESE

Total Credit Hours: 63

Visit www.aacc.edu to learn more about the Teacher Education and Child Care Institute

Purpose: The Associate of Arts in Teaching (A.A.T.) degree is designed for students preparing to transfer to a four-year institution to obtain a baccalaureate degree and earn Maryland state teacher certification. The program incorporates foundation coursework in teacher education, content coursework in a selected certification area, and a field-based experience at the appropriate level of teacher certification.

This curriculum prepares students to transfer to an elementary education or generic special education program at a four-year college or university in the state of Maryland. The Associate of Arts in Teaching (A.A.T.) degree has been articulated with all of the transfer programs in elementary education and generic special education in the state of Maryland. Upon completion of the A.A.T. degree, students are eligible to be admitted as an elementary education or generic special education major at a Maryland transfer institution. The courses in this degree are not sufficient to meet all special education or inclusion course requirements for four-year teacher education programs.

Additional Degree Requirements

To earn the degree and be eligible for seamless transfer within Maryland, students must complete all required coursework and the following additional requirements:

- Students must submit either a 3.0 cumulative grade point average on a 4.0 scale; or a 2.75-2.99 cumulative grade point average on a 4.0 scale and qualifying scores on the basic skills assessment for teacher licensure as established by the State Superintendent of Schools and as approved by the State Board of Education;
- Students must complete fieldwork requirements as indicated by the Teacher Education and Child Care Institute. Participation in the required fieldwork experience is contingent upon satisfactory completion of the criminal background check. For complete details, see the Teacher Education and Childcare Institute section of this catalog.
- Students must earn a C or better in all coursework required for the degree.

Students may be required to meet additional admittance requirements at the chosen transfer institution.

The A.A.T. degrees parallel the Maryland State Department of Education grade bands:

Early Childhood Education	PreK-grade 3
Elementary Education	Grades 1-6
Secondary Academic Areas	Grades 7-12

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Entrance/Admission Requirements

Criminal Background Check

Participation in the required fieldwork experience is contingent upon satisfactory completion of the criminal background check. For complete details, see the Teacher Education and Childcare Institute section of this catalog.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 34 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.
- ENG 102 - Academic Writing and Research 2 3 *credit hours*

Arts and Humanities: 6 credits

- HUM 101 - Introduction to Fine Arts 3 *credit hours*
- HIS 211 - United States History through the Civil War 3 *credit hours* **OR**
- HIS 212 - United States History Since the Civil War 3 *credit hours*

Biological and Physical Sciences: 8 credits

- PHS 100 - General Physical Science 4 *credit hours*
- BIO 100 - Introduction to Biology 4 *credit hours*

Mathematics: 8 credits

- MAT 221 - Fundamental Concepts of Mathematics 1 4 *credit hours*
- MAT 222 - Fundamental Concepts of Mathematics 2 4 *credit hours*

Social and Behavioral Sciences: 6 credits

- PSY 111 - Introduction to Psychology 3 *credit hours*
- GEO 102 - World Regional Geography 3 *credit hours*

Program Requirements: 29 credits

- EDU 111 - Foundations of Education 3 *credit hours*
- EDU 133 - Growth and Development 3 *credit hours*
- EDU 135 - Children's Health, Nutrition and Safety 3 *credit hours*
- EDU 211 - Educational Psychology 3 *credit hours*
- EDU 214 - Introduction to Special Education 3 *credit hours*
- EDU 242 - Foundations of Reading and Language Arts 3 *credit hours*
- OR**
- EDU 242H - Foundations of Reading and Language Arts - Honors 3 *credit hours*
- MAT 223 - Fundamental Concepts of Mathematics 3 4 *credit hours*
- PHS 200 - Earth and Space Science 4 *credit hours*
- PLS 111 - American Government 3 *credit hours*

Diversity Requirement

Satisfied by EDU 214.

Technology Requirement

Satisfied by EDU 214.

Wellness Requirement

Satisfied by EDU 135.

Program Outcomes

Upon successful completion of this program, students will be able to:

LO 1 Learner Development

Identify and analyze the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to disabilities and cultural and linguistic diversity.

LO 2 Learning Differences

Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners.

LO 3 Learning Environments

Describe and model the use of learning environments that support and empower collaboration and learning through respectful, reciprocal relationships.

LO 4 Content Knowledge

Demonstrate the mastery of diverse content areas and apply developmentally appropriate approaches to enhance children's learning and development.

LO 5 Skill Development for Connections

Develop excellent written, verbal, critical thinking, and problem solving skills, which will allow the elementary educator to effectively make connections between prior knowledge/experience and new learning for their students.

LO 6 Identify Types and Purposes of Assessment

Identify types and purposes of assessment and begin to interpret student data to plan instruction.

LO 7 Professionalism

Identify and conduct themselves as elementary educators who model self-care and use reflection and ethical guidelines to advocate for sound educational practices and policies.

LO 8 Leadership

Demonstrate leadership as elementary educators who collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth, and to advance the profession.

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Early Childhood Development (A.A.S.)
- Early Childhood Education/Early Childhood Special Education (A.A.T.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Emergency Medical Services - Paramedic (A.A.S.)

Special Admission Requirements - Rolling Admission (*admits twice a year: fall and spring*)

Official Title of Major: Emergency Medical Services - Paramedic, A.A.S.

Award: Associate of Applied Science degree, A.A.S. and eligibility for the National Registry Paramedic (NRP) written and practical exams.

Code: AAS.EMS.EMS

Total Credit Hours: A minimum of 64

Visit www.aacc.edu to learn more about the Paramedic Degree Program

Purpose: Prepares students for state and national certification as a Paramedic (NRP). There is a fee for the national exam.

The AACC Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP), and approved as a Maryland EMS Educational Program by the Maryland Emergency Medical Services Board (MEMSB) upon the recommendation of the Maryland Institute for Emergency Medical Services Systems (MIEMSS).

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC

course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Additional Program Requirements

Students must meet academic and admission requirements prior to admission. Students will be expected to practice certain skills on each other in the college lab. Mandatory attendance requirements apply to all classes in the EMS areas of study. A minimum grade of C is required in all EMS curriculum courses required in the program.

Range of Occupations

- Paramedic in local emergency medical services system, industry or health care setting.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Entrance/Admission Requirements

To view all entrance/admission details, please go to the Paramedic Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Articulation Agreement

Students may transfer up to 60 credits to the University of Maryland Baltimore County (UMBC) Emergency Health Services curriculum and up to a maximum of 64 credits to the Towson University Allied Health program in pursuit of an advanced degree. For information call the EMT department at **410-777-7310**.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Emergency Medical Services - Paramedic Course Sequence

General Education Requirements: 20 credits

Courses may be taken prior to, concurrently or following the Paramedic course sequence.

Arts and Humanities General Education Courses

(choose one course)

- ASL 111 - American Sign Language 1 3 *credit hours*
OR
- COM 111 - Fundamentals of Oral Communication 3 *credit hours* **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours* **OR**
- COM 110 - Introduction to Interpersonal Communication 3 *credit hours* **OR**
- COM 141 - Group Communication and Leadership 3 *credit hours*
OR
- COM 200 - Intercultural Communication 3 *credit hours*
OR
- SPA 111 - Elementary Spanish 1 3 *credit hours*

Social and Behavioral Sciences General Education Courses *(choose one course)*

- SOC 111 - Introduction to Sociology 3 *credit hours*
OR
- SOC 150 - Introduction to Aging Studies 3 *credit hours*
OR
- SOC 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies 3 *credit hours*

Biological and Physical Sciences General Education Courses

- BIO 101 - Foundations of Biology: Molecules and Cells 4 *credit hours*
AND
- BIO 230 - Structure and Function of the Human Body 4 *credit hours*
OR
- BIO 231 - Human Biology 1 4 *credit hours*
AND
- BIO 232 - Human Biology 2 4 *credit hours*

English Composition: 3 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101 or ENG 101A to meet their English Composition General Education requirement.

Mathematics: 3 credits

- MAT 135 - Statistics 3 *credit hours*

Program Requirements: 44 credits

All EMS courses require a grade of C or better.

- EMS 101 - Introduction to Advanced EMS Practice 6 *credit hours*
- EMS 111 - Paramedic 1 7 *credit hours*
- EMS 121 - Paramedic 2 6 *credit hours*
- EMS 131 - Paramedic 3 7 *credit hours*
- EMS 141 - Paramedic 4 6 *credit hours*
- EMS 251 - Paramedic 5 5 *credit hours*
- EMS 271 - Paramedic Capstone 7 *credit hours*

Diversity Requirement

Satisfied by SOC 111 or SOC 150 or SOC 212.

Technology Requirement

Satisfied by EMS sequence of courses.

Wellness Requirement

Satisfied by EMS sequence of courses.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Integrate knowledge of safety, EMS systems, and provider well-being to provide quality care within a legal framework of cultural humility, therapeutic communications and medical ethics.
2. Integrate approved medical terminology and abbreviations into all communications with health professionals.
3. Apply knowledge and principles of public health, epidemiology, health promotion and illness/injury prevention while advocating for the psychosocial needs of the patient.
4. Integrate knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of patients of all age groups.
5. Integrate assessment, anatomy, physiology, epidemiology, pathophysiology, psychosocial impact, presentations and prognosis to develop and implement a treatment plan with the goal of assuring a patient's airway, adequate mechanical ventilation and respiration for patients of all ages.
6. Integrate scene and patient assessment findings with knowledge of anatomy, physiology, epidemiology, pathophysiology, psychosocial impact, and presentations to form a field impression from their list of differential diagnoses.
7. Utilize clinical reasoning to formulate field diagnoses to create an appropriate treatment/care plan for a diverse population using appropriate team dynamics and leadership for medical and trauma patients.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Emergency Medical Services - Paramedic (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Emergency Medical Services - Paramedic (certificate)

Special Admission Requirements - Rolling Admission (*admits twice a year: fall and spring*)

Official Title of Certificate: Emergency Medical Services - Paramedic, Certificate

Award: Certificate and eligibility for the National Registry Paramedic (NRP) written and practical exams.

Code: CRT.EMS.P

Total Credit Hours: 44

Visit www.aacc.edu to learn more about the Paramedic Certificate Program

Purpose: Prepares students for state and national certification as a Paramedic (NRP). There is a fee for the national exam.

The AACC Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP), and approved as a Maryland EMS Educational Program by the Maryland Emergency Medical Services Board (MEMSB) upon the recommendation of the Maryland Institute for Emergency Medical Services Systems (MIEMSS).

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Additional Program Requirements

Students must meet academic and admission requirements prior to admission. Students will be expected to practice certain skills on each other in the college lab. Mandatory attendance requirements apply to all classes in the EMS areas of study. A minimum grade of C is required in all EMS curriculum courses required in the program.

Range of Occupations

- Paramedic in local emergency medical services system, industry or health care setting.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

Entrance/Admission Requirements

To view all entrance/admission details, please go to the Paramedic Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Paramedic Certificate Course Sequence

Note: All EMS courses require a grade of C or better.

Certificate Requirements 44 credits

Must be taken sequentially.

- EMS 101 - Introduction to Advanced EMS Practice *6 credit hours*
6 credit hours
- EMS 111 - Paramedic 1 *7 credit hours*
7 credit hours
- EMS 121 - Paramedic 2 *6 credit hours*
6 credit hours
- EMS 131 - Paramedic 3 *7 credit hours*
7 credit hours
- EMS 141 - Paramedic 4 *6 credit hours*
6 credit hours
- EMS 251 - Paramedic 5 *5 credit hours*
5 credit hours
- EMS 271 - Paramedic Capstone *7 credit hours*
7 credit hours

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Integrate knowledge of safety, EMS systems, and provider well-being to provide quality care within a legal framework of cultural humility, therapeutic communications and medical ethics.
2. Integrate approved medical terminology and abbreviations into all communications with health professionals.
3. Apply knowledge and principles of public health, epidemiology, health promotion and illness/injury prevention while advocating for the psychosocial needs of the patient.
4. Integrate knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of patients of all age groups.
5. Integrate assessment, anatomy, physiology, epidemiology, pathophysiology, psychosocial impact, presentations and prognosis to develop and implement a treatment plan with the goal of assuring a patient's airway, adequate mechanical ventilation and respiration for patients of all ages.
6. Integrate scene and patient assessment findings with knowledge of anatomy, physiology, epidemiology, pathophysiology, psychosocial impact, and presentations to form a field impression from their list of differential diagnoses.
7. Utilize clinical reasoning to formulate field diagnoses to create an appropriate treatment/care plan for a diverse population using appropriate team dynamics and leadership for medical and trauma patients.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Emergency Medical Services - Paramedic (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Engineering Transfer (A.S.)

Official Title of Major: Engineering Transfer, A.S.

Award: Associate of Science degree, A.S.

Code: AS.EGR.EGR

Total Credit Hours: A minimum of 63

Visit www.aacc.edu to learn more about the Engineering Department

Purpose: Offers an opportunity to complete the first two years of a four-year engineering degree. Engineers design, analyze, build, and test technological hardware, such as electronic systems and computers, automobiles and aircraft, communication equipment, roads and bridges.

This Engineering Transfer, AS, degree program should be selected by individuals who look to pursue a four-year degree in mechanical, civil, aerospace, computer, biomedical, environmental, or chemical engineering. This degree is primarily comprised of foundation courses in mathematics, physics, and chemistry. Through a selection of technical electives, this degree will become more focused in whatever engineering discipline the student chooses to pursue. Technical course requirements of transferring colleges vary so it is important to discuss course selection with an engineering transfer advisor.

Related programs offered at AACC include Electronics Engineering Technology (A.A.S.), and Mechatronics Engineering Technology (A.A.S.).

Additional Degree Requirements

To complete the program in two years it is necessary to take calculus (MAT 191) in the first term. Those not ready for calculus should take pre-calculus math (MAT 145 and MAT 146 or MAT 151), possibly in the summer before the first regular term.

Range of Occupations

- Leads to occupation of Engineering

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 38 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 3 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A or ENG 101 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

See General Education Arts and Humanities Requirements for a list of approved courses. These two courses must be from two different disciplines and have different course prefixes.

Biological and Physical Sciences: 12 credits

- CHE 111 - General Chemistry 1 4 credit hours
- PHY 211 - General Physics 1 4 credit hours
- PHY 212 - General Physics 2 4 credit hours

Mathematics: 8 credits

- MAT 191 - Calculus and Analytic Geometry 1 4 credit hours
- MAT 192 - Calculus and Analytic Geometry 2 4 credit hours

Social and Behavioral Sciences: 6 credits

See General Education Social and Behavioral Sciences Requirements for a list of approved courses. These two courses must be from two different disciplines and have different course prefixes.

Additional General Education Requirements: 3 credits

- **Wellness Requirement** 3 credit hours
See General Education Wellness Requirements for a list of approved courses.

Program Requirements: 25 credits

- EGR 120 - Introduction to Engineering Design 3 credit hours
- MAT 201 - Calculus and Analytic Geometry 3 4 credit hours
- MAT 212 - Differential Equations 4 credit hours

Technical electives (see list below): 14 credits

Students must complete technical elective courses from the following list. At least one course must be a 200-level EGR course.

- BIO 107 - Environmental Science 4 credit hours
- CHE 112 - General Chemistry 2 4 credit hours
- CHE 134 - Chemistry Topics for Engineering 1 credit hour
- CHE 213 - Organic Chemistry 1 4 credit hours
- CHE 214 - Organic Chemistry 2 4 credit hours
- EGR 209 - Statics 3 credit hours
- EGR 211 - Mechanics of Materials 3 credit hours
- EGR 222 - Dynamics 3 credit hours
- EGR 235 - Circuit Theory 4 credit hours
- EGR 241 - Systems and Signals 4 credit hours
- EGR 244 - Digital Logic Design 4 credit hours
- EGR 250 - Intermediate Programming for Engineers 3 credit hours
- EGR 268 - Thermodynamics 3 credit hours
- ENG 102 - Academic Writing and Research 2 3 credit hours
- MAT 202 - Linear Algebra 4 credit hours

- MAT 250 - Introduction to Discrete Structures 3 credit hours
- PHY 213 - General Physics 3 4 credit hours

Diversity Requirement

Students may satisfy the diversity requirement simultaneously as they satisfy the arts and humanities, social and behavioral sciences or biological and physical sciences general education requirements. See Diversity Requirement for a list of approved courses.

Technology Requirement

Satisfied by EGR 120

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Function as a productive member of an engineering design team.
2. Explain the relevance of professional and ethical responsibilities for engineering practice.
3. Identify, formulate, and solve engineering problems.
4. Use techniques, skills, and modern engineering tools necessary for engineering practice.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Electrical Engineering (A.S.E.)
- Electronics Engineering Technology (A.A.S.)

Transferring Credits to a Maryland Public Four-Year School

Maryland public four-year colleges and universities accept a minimum of 60 and as many as 70 credits earned toward an associate degree from a Maryland public community college. Students planning to transfer should consult with an AACC academic and transfer advisor; and are advised to obtain permission from the four-year college or university when planning to transfer credits beyond the minimum degree requirements at AACC. More than 70 credits earned at AACC may be transferred if outlined within an established transfer agreement. Current transfer agreements can be found on the AACC Transfer Partners webpage.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Entrepreneurship (A.A.S.)

Official Title of Major: Entrepreneurship, A.A.S.

Award: Associate of Applied Sciences degree, A.A.S.

Code: AAS.ESI.ENTREP

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Entrepreneurial Studies Institute

Purpose: A degree in entrepreneurship provides you with the skills to start your own venture, work with others to identify business opportunities, join entrepreneurial ventures or work for an established organization. Entrepreneurship graduates are often in demand by growth-oriented companies wanting to incorporate entrepreneurial vision and innovation in their firms and by companies seeking individuals who have the ability to solve problems creatively and improve productivity. Regardless of size, all businesses need managers who can identify opportunities, obtain resources, plan, organize, direct and control work to accomplish business objectives.

Topics covered during coursework include entrepreneurial thinking and opportunity recognition, developing a business plan, obtaining resources, managing finances, strategic planning, selecting managers and employees, organizing and designing the business, identifying and capitalizing on international opportunities, managing technology, and successfully dealing with managerial challenges.

Range of Occupations

Graduating students may obtain employment by launching their own business venture or working for any business in any industry including: construction, architecture, child care, personal care, food services, technology, engineering, accounting, financial services and more.

Where course choices exist within this program, transfer students should consult with the department to make course choices consistent with the requirements of their intended transfer school.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*

ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

See *General Education Arts and Humanities Requirements* for a list of approved courses.

Biological and Physical Sciences: 3 credits

See *General Education Biological and Physical Sciences Requirements* for a list of approved courses.

Mathematics: 3 credits

See *General Education Mathematics Requirements* for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- ECO 116 - Inside the Global Economy 3 credit hours
OR
- ECO 121 - Introduction to Economics 3 credit hours
OR
- ECO 211 - Principles of Economics 1 3 credit hours
Work with your academic advisor to select an appropriate course for your transfer institution.

Additional General Education requirements: 6 credits

- **Technology Requirement** 3 credit hours
CTA 100 or CTP 103 are recommended. This requirement may also be met by CLEP exam.
- **Wellness Requirement** 3 credit hours
See General Education Wellness Requirement for a list of approved courses.

Program Requirements: 36 credits

- BPA 111 - Introduction to Business 3 credit hours
- BPA 120 - Small Business Management 3 credit hours
- BPA 127 - Digital Marketing and Analytics 3 credit hours
OR
- ESI 104 - Entrepreneurship: Sales & Marketing for Small Business 3 credit hours
- BPA 162 - Business Communications 3 credit hours
- BPA 200 - Foundations of Accounting 3 credit hours
OR
- BPA 201 - Financial Accounting 3 credit hours
*
- **OR**
- BPA 217 - Small Business Accounting 3 credit hours
- BPA 275 - Internship in Business 1 3 credit hours
- ESI 103 - Introduction to Entrepreneurship 3 credit hours
- ESI 270 - Entrepreneurship: New Venture Planning 3 credit hours
- LGS 250 - Legal Issues for Business 3 credit hours

OR

- LGS 253 - Business Law 1 3 *credit hours*

*

Electives (choose any BPA, ECO, ESI or LGS course): 9 *credits*

*Courses marked with an asterisk are recommended if you plan to transfer to a business degree program at a 4-year university.

Diversity Requirement

Students may satisfy the diversity requirement simultaneously as they satisfy the arts and humanities, social and behavioral sciences, biological and physical sciences general education requirements or through ESI electives of BPA 174 or BPA 105.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track Option

This program has a *Fast Track Option* for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Identify and analyze entrepreneurial opportunity, assess and evaluate risk, and plan for small business ventures.
2. Develop a comprehensive business plan, including a marketing plan, to launch an entrepreneurial venture.
3. Compile and prepare accurate financial information for tax compliance and informed business decisions using appropriate software.
4. Use research methods and evaluation skills to enhance business decision making.
5. Apply current business concepts and laws to develop legal and ethical business practices.

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Entrepreneurship (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Entrepreneurship (certificate)

Official Title of Certificate: Entrepreneurship, Certificate

Award: Certificate

Code: CRT.ESI.ENTREP

Total Credit Hours: 18

Visit www.aacc.edu to learn more about the Entrepreneurial Studies Institute

Purpose: A certificate in entrepreneurship provides you with the basic skills to start your own venture, work with others to identify business opportunities, join entrepreneurial ventures, or work for an established organization. Regardless of size, all businesses need managers who can identify opportunities, obtain resources, plan, organize, direct, and control work to accomplish business objectives. Topics covered during coursework include entrepreneurial thinking and opportunity recognition, developing a business plan, small business accounting, sales and marketing for small business, and legal issues.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18 credits

- BPA 120 - Small Business Management *3 credit hours*
(formerly listed as ESI 120)

- BPA 127 - Digital Marketing and Analytics *3 credit hours*
or
- ESI 104 - Entrepreneurship: Sales & Marketing for Small Business *3 credit hours*

- BPA 200 - Foundations of Accounting *3 credit hours*
or
- BPA 201 - Financial Accounting *3 credit hours*
or
- BPA 217 - Small Business Accounting *3 credit hours*

- ESI 103 - Introduction to Entrepreneurship *3 credit hours*
- ESI 270 - Entrepreneurship: New Venture Planning *3 credit hours*

- LGS 250 - Legal Issues for Business *3 credit hours*
(formerly listed as ESI 250)
or
- LGS 253 - Business Law 1 *3 credit hours*

Construction Management Entrepreneurship Certificate Program

The college also offers a **Construction Management Entrepreneurship certificate program** which prepares students to launch and operate their own ventures or to take a leadership role in an existing business or organization. For information, call **410-777-2442**.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Use communication skills appropriate for a business environment.
2. Use research methods to support business decision making.
3. Identify and compare various forms of business ownership.
4. Construct financial statements.
5. Use financial information to make more informed business decisions.
6. Apply current business concepts and laws to ensure legal and ethical business practices.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Entrepreneurship (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Entrepreneurship for Licensed Professionals (certificate)

Official Title of Certificate: Entrepreneurship for Licensed Professions, Certificate

Award: Certificate

Code: CRT.ESI.ENTREP-PROF

Total Credit Hours: 12

Visit www.aacc.edu to learn more about the Entrepreneurial Studies Institute

Purpose: Participants in licensed professions will be trained in the basics of entrepreneurship and business ownership. Participants will learn and apply innovative problem solving techniques which are valuable to skilled trades and licensed professionals who wish to transition from being employees to business owners.

All credits earned in the certificate are stackable and apply towards requirements of the Entrepreneurship Certificate and the Entrepreneurship AAS degree if the student decides to pursue them.

Range of Occupations

- Unlimited = depending on the vision and goals of participants

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Scholarships

Participants in this program may qualify for scholarships funded by sources other than the U.S. Department of Education. Specifically, the Entrepreneurs Scholarship funded by the Ratcliffe Foundation will support this certificate. For more information, visit <https://www.aacc.edu/about/schools-of-study/business-and-law/entrepreneurial-studies-institute/ratcliffe-scholarship/>.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 12 Credits

Students must complete the four core courses in Entrepreneurial Studies to earn a certificate in Entrepreneurship for Licensed Professions.

- BPA 120 - Small Business Management *3 credit hours*
- ESI 103 - Introduction to Entrepreneurship *3 credit hours*
- ESI 104 - Entrepreneurship: Sales & Marketing for Small Business *3 credit hours*
- ESI 270 - Entrepreneurship: New Venture Planning *3 credit hours*

Program Outcomes

Upon successful completion of this course, the student will be able to:

1. Use idea generation methods to identify and analyze ideas for a business venture.
2. Design and develop a comprehensive business plan to launch an entrepreneurial venture.
3. Design and develop a marketing plan to launch an entrepreneurial venture.
4. Use research methods, financial statements, and analytical skills to enhance business management and strategic decision-making.
5. Apply current business concepts and laws to develop legal and ethical business practices.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Event Planning and Catering (certificate)

Official Title of Certificate: Event Planning and Catering, Certificate

Award: Certificate

Code: CRT.HRM.EVT-PLN-CAT

Total Credit Hours: 19

Visit www.aacc.edu to learn more about the Hotel, Culinary Arts and Tourism Institute

Purpose: For students interested in working in the event planning and catering industry or who are currently employed in the food services industry. This certificate builds toward a Hotel/Restaurant Management degree, Culinary Arts or Hospitality Business Management Option. This award is Workforce Investment Act eligible.

Range of Occupations

- Small catering business assistant manager
- Banquet assistant

- Event planner

Additional Program Requirements

Students are required to wear an approved chef uniform for production classes. See course description for specifics.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 19 credits

- HRM 111 - Introduction to the Hospitality Industry *3 credit hours*
- HRM 119 - Certification in Sanitation *1 credit hour*
- HRM 121 - Introduction to Cooking *3 credit hours*
- HRM 140 - Event Planning *3 credit hours*
- HRM 240 - Meeting and Conference Planning *3 credit hours*
- HRM 251 - Restaurant Management *3 credit hours*
- HRM 253 - Catering Management *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. **Food Safety:** Apply and evaluate safe, sanitary procedures, habits, and behaviors in hotel and restaurant facilities.
2. **Customer Service:** Identify customer service and guest relations standards and policies that must be in place for a successful event.
3. **Multicultural Perspectives:** Demonstrate knowledge of multicultural perspectives to meet the needs of the guest and employees (customer service)
4. **Sustainability:** Use knowledge of best practices to further sustainability (economic, environmental, and cultural/social) in the event planning industry (sustainability)
5. **Management:** Identify and incorporate the appropriate event elements and services to meet the goals and objectives of an event.
6. **Leadership and Human Relationships:** Demonstrate knowledge and skills in a practical event environment.
7. **Marketing:** Practice effective sales techniques and procedures including marketing, public relations, and entrepreneurship (Marketing)
8. **Application of skills and Major Concepts:** Examine the planning, space, and equipment elements necessary to support the logistics of an event
9. **Technology Integration:** Integrate current industry technologies in all aspects of hospitality management (Hospitality Technology)

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Financial Accounting (certificate)

Official Title of Certificate: Financial Accounting, Certificate

Award: Certificate

Code: CRT.BPA.FIN-ACCT

Total Credit Hours: A minimum of 51

Visit www.aacc.edu to learn more about the Business Administration Department

Purpose: Intended for students who already have earned a bachelor's degree or higher and who wish to complete the individual course requirements to sit for the Maryland Certified Public Accountant (CPA) exam.

CPA Exam Requirements

Those initially applying to sit for the CPA exam in Maryland must qualify by (1) holding a bachelor's degree in any discipline from an accredited college or university; (2) completing 150 credit hours; and (3) completing a minimum of 51 credit hours in accounting and related business subjects, including certain required courses.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Entrance/Admission Requirements

Entrance Requirements

Since the state requirements are subject to change and since many of the courses are offered only once each year because of limited demand, the student should meet with the chair of the business administration department before starting this study.

Certificate Requirements: 51 credits

- BPA 138 - Business and Professional Ethics 3 credit hours
- BPA 201 - Financial Accounting 3 credit hours
- BPA 202 - Managerial Accounting 3 credit hours
- BPA 241 - Intermediate Accounting 1 3 credit hours
- BPA 242 - Intermediate Accounting 2 3 credit hours
- BPA 262 - Tax Accounting 3 credit hours
 - * Minimum requirement mandated by state Board of Public Accountancy; however, BPA 264 - Advanced Tax Accounting, is strongly recommended for sufficient coverage of material tested on the CPA examination.
- BPA 263 - Auditing 3 credit hours

Choose three of the following

- BPA 217 - Small Business Accounting 3 credit hours
 - BPA 245 - Advanced Accounting 3 credit hours
 - BPA 261 - Cost Accounting 3 credit hours
 - BPA 264 - Advanced Tax Accounting 3 credit hours
- It is recommended that students choose BPA 245, BPA 261 and BPA 264 as their three accounting electives.*

Choose seven of the following

In at least five of the following nine (9) subjects: statistics, economics, corporation or business finance, management, business law, marketing, quantitative methods, computer science/information systems and business communication:

- BPA 125 - Principles of Marketing 3 credit hours
- BPA 142 - Principles of Management 3 credit hours
- BPA 162 - Business Communications 3 credit hours
- ECO 232 - Business Statistics 3 credit hours
(formerly listed as BPA 232)
- OR
- MAT 135 - Statistics 3 credit hours
- BPA 255 - Accounting Information Systems 3 credit hours
- BPA 256 - Financial Management 3 credit hours
- ECO 211 - Principles of Economics 1 3 credit hours
- ECO 212 - Principles of Economics 2 3 credit hours

- ECO 233 - Data, Sampling, and Analytics 3 credit hours
- OR
- MAT 235 - Introduction to Data Science 4 credit hours

- LGS 253 - Business Law 1 3 credit hours
(formerly listed as BPA 253)
* Minimum requirement mandated by state Board of Public Accountancy; however, LGS 254 - Business Law 2 or BPA 254 - Business Law 2, is strongly recommended for sufficient coverage of material tested on the CPA examination.
- LGS 254 - Business Law 2 3 credit hours
(formerly listed as BPA 254)

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply appropriate accounting terminology, principles and framework to organizations.
2. Organize and prepare professional accounting communications in written form.
3. Solve complex accounting problems.
4. Apply analytical and critical thinking skills to business decisions.
5. Apply ethical reasoning to business decisions.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Forensic Studies - Forensic Police Science (A.A.S.)

Official Title of Major: Forensic Studies - Forensic Police Science, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.CJS.ST-FOR.POL

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

Purpose: Prepares students for careers in the area of criminal investigation and forensic science. Provides students with an educational opportunity to earn an Associate of Applied Science degree in forensic studies and is a transfer program for students

planning to pursue a bachelor degree in forensic science at another college or university. Prepares students with a continuous and thorough accumulation of knowledge in the field of criminal justice and forensic science.

Additional Program Requirements

Students are expected to participate with their advisor in tailoring a mix of electives that will satisfy their own needs with respect to immediate and long-term employment.

Range of Occupations

Employment in criminal justice agencies that utilize forensics as an investigative tool.

- Consultant
- Correctional officer
- Crime laboratory assistant
- Detective
- Federal police officer
- Fire investigator
- Mobile crime unit assistant
- Police officer
- Private investigator

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement

Arts and Humanities: 3 credits

- COM 111 - Fundamentals of Oral Communication 3 *credit hours*
OR
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours*

Biological and Physical Sciences: 3 credits

See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

- MAT 133 - Finite Mathematics 3 credit hours
- **OR**
- MAT 135 - Statistics 3 credit hours

Social and Behavioral Sciences: 3 credits

- SOC 111 - Introduction to Sociology 3 credit hours

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 credit hours
CTP 103 is recommended. This requirement can also be met by CLEP exam. See General Education Technology Requirements for list of additional approved courses.
- **Wellness Requirement** 3 credit hours
Must choose from:
 - HEA 150 - Advanced First Aid, CPR and AED
 - EMT 104 - Emergency Medical Care, CPR & AED

Program Requirements: 14 credits

- CJS 111 - Introduction to Criminal Justice 3 credit hours
- CJS 137 - Clinical Forensics 3 credit hours
- CJS 222 - Investigation and Criminalistics 4 credit hours
- CJS 250 - Introduction to Forensic Science 4 credit hours

Area of Concentration Requirements: 22 credits

- CJS 136 - History of Homicide 3 credit hours
- CJS 225 - Criminal Justice Ethics 3 credit hours
- PHL 141 - Introduction to Logic 3 credit hours
- LGS 215 - Criminal Law 3 credit hours
(formerly listed as CJS 215)
- LGS 216 - Criminal Evidence and Procedure 3 credit hours
(formerly listed as CJS 216)
- PSY 111 - Introduction to Psychology 3 credit hours
- **Elective** (consult with an advisor) 4 credit hours

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Students must satisfy the Technology Requirement. Can be satisfied by CTP 103 (recommended) or by CLEP exam.

Wellness Requirement

Satisfied by HEA 150 or EMT 104.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply analytical and critical thinking skills in the context of criminal investigations.
2. Write concise and effective reports that reflect a working knowledge of forensic science.
3. Communicate concepts and theories about forensic science both verbally and in writing.
4. Gather, analyze, preserve, and interpret information, artifacts and evidence.
5. Use scientific methods to solve problems in criminal investigations.
6. Describe the criminal justice system and the rules of evidence.
7. Articulate ethical and professional standards of conduct and performance.
8. Identify diversity and human rights issues pertaining to the legal system.
9. Use technology to gather, compose, appraise and apply information.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Forensic Studies - Forensic Scientist (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Forensic Studies - Forensic Scientist (A.A.S.)

Official Title of Major: Forensic Studies - Forensic Scientist, A.A.S.

Award: Associate of Applied Science, A.A.S.

Code: AAS.CJS.ST-FOR.SCT

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

Purpose: Prepares students for careers in the area of criminal investigation and forensic science. Provides students with an educational opportunity to earn an Associate of Applied Science degree in forensic studies and is a transfer program for students planning to pursue a bachelor degree in forensic science at another college or university. Prepares students with a continuous and thorough accumulation of knowledge in the field of criminal justice and forensic science.

Additional Program Requirements

Students are expected to participate with their advisor in tailoring a mix of electives that will satisfy their own needs with respect to immediate and long-term employment.

Range of Occupations

Employment in criminal justice agencies that utilize forensics as an investigative tool.

- Consultant

- Crime laboratory assistant
- Detective
- Federal police officer
- Fire investigator
- Mobile crime unit assistant
- Police officer
- Private investigation agencies

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- COM 111 - Fundamentals of Oral Communication 3 *credit hours* **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours*

Biological and Physical Sciences: 3 credits

See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

- MAT 137 - College Algebra 3 *credit hours*

Social and Behavioral Sciences: 3 credits

- SOC 111 - Introduction to Sociology 3 *credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement 3 credit hours**

CTP 103 is recommended. This requirement may also be satisfied by CLEP exam. See also General Education Technology Requirement for list of approved courses.

- **Wellness Requirement 3 credit hours**

Must choose one from:

- HEA 150 - Advanced First Aid, CPR and AED
- EMT 104 - Emergency Medical Care, CPR & AED

Program Requirements: 14 credits

- CJS 111 - Introduction to Criminal Justice 3 credit hours
- CJS 137 - Clinical Forensics 3 credit hours
- CJS 222 - Investigation and Criminalistics 4 credit hours
- CJS 250 - Introduction to Forensic Science 4 credit hours

Area of Concentration Requirements: 22 credits

- CHE 111 - General Chemistry 1 4 credit hours
- CHE 112 - General Chemistry 2 4 credit hours
- CHE 113 - Fundamentals of Organic and Biochemistry 4 credit hours
- PHY 111 - Fundamentals of Physics 1 4 credit hours **AND**
- PHY 112 - Fundamentals of Physics 2 4 credit hours
- OR**
- PHY 211 - General Physics 1 4 credit hours **AND**
- PHY 212 - General Physics 2 4 credit hours
- **Elective (consult with an advisor) 2 credit hours**

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

May be satisfied by CTP 103.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply analytical and critical thinking skills in the context of criminal, civil and administrative investigations.

2. Implement forensic laboratory techniques.
3. Apply the law in gathering, analyzing, preserving, and interpreting evidence.
4. Demonstrate ethical and professional standards of conduct and performance.
5. Integrate forensic applications with diversity issues, civil liberties, and constitutional rights.
6. Use technology and forensic analysis methods to gather, compose, appraise, and interpret evidence.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Forensic Studies - Forensic Police Science (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Full-Stack Web Development (certificate)

Official Title of Certificate: Full-Stack Web Development, Certificate

Award: Certificate

Code: CRT.CPS.FULL-STACK

Total Credit Hours: 27

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: Develop and apply web design, database manipulation, programming, and server-side scripting skills to create interactive websites. Learn skills needed to master both front-end and back-end technologies.

Range of Occupations

- Website application developer
- Full stack web developer
- PHP Developer
- Web Content Manager

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 27 credits

- CTP 115 - Introductory Object-Oriented Program Analysis and Design *4 credit hours*
- CTP 118 - Web Development using HTML/CSS *4 credit hours*
- CTP 135 - Programming in JavaScript and jQuery *4 credit hours*
- CTP 140 - Database Foundations, SQL/NoSQL *3 credit hours*
- CTP 130 - Programming in PHP/MySQL *3 credit hours*
- CTP 236 - Advanced JavaScript *3 credit hours*
- CTP 220 - Content Management Systems *3 credit hours*
- CTP 237 - Server-Side Development *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Summarize the process of serving a webpage and how the browser renders code
2. Build front-end websites with static and dynamic Web pages
3. Create back-end server with routes to support full-stack applications
4. Implement user authentication schemes needed to incorporate different types of databases

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Fundamentals of Cooking and Baking Option (certificate)

Official Title of Certificate: Fundamentals of Cooking and Baking Option, Certificate

Award: Certificate

Code: CRT.HRM.COOK-BAKING

Total Credit Hours: 19

Visit www.aacc.edu to learn more about the Hotel, Culinary Arts and Tourism Institute

Purpose: Prepares students for entry level employment in the hospitality industry such as in a restaurant, hotel or bakery. This certificate builds toward Hotel/Restaurant Management degree, in either the Baking and Pastry Arts concentration or the Culinary Arts concentration. This certificate also contains prerequisite courses for either the Culinary Arts certificate or the Baking and Pastry certificate.

Range of Occupations

- Line Cook
- Prep Cook
- Baker
- Pastry cook

Additional Program Requirements

Students are required to wear an approved chef uniform for production classes. See course description for specifics.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Certificate Requirements: 19 credits

- HRM 111 - Introduction to the Hospitality Industry *3 credit hours*
- HRM 119 - Certification in Sanitation *1 credit hour*
- HRM 121 - Introduction to Cooking *3 credit hours*
- HRM 124 - Introduction to Baking and Pastry *3 credit hours*
- HRM 190 - Food Science and Nutritional Cooking *3 credit hours*
- HRM 251 - Restaurant Management *3 credit hours*
- HRM 123 - Cooking Techniques 1 *3 credit hours*
- OR**
- HRM 203 - Intermediate Pastry Production *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. **Introduction to the Hospitality and Baking and Pastry Industry:** Develop an understanding of the hospitality industry and career opportunities in the field. Investigate trade publications and professional organizations appropriate for continuing education. Become familiar with the organizational structure and basic functions of departments within hospitality and food service establishments.
2. **Food Safety:** Apply and evaluate safe, sanitary procedures, habits, and behaviors in hotel and restaurant facilities.
3. **Business and Math Skills:** Perform mathematical functions related to food service operations.
4. **Food Preparation:** Develop skills in knife, tool, and equipment handling and apply principles of food preparation/basic baking of a variety of products. Operate equipment safely and correctly, to apply knowledge of laws and regulations relating to safety and sanitation.
5. **Application of skills and Major Concepts:** Identify and explain common hotel and restaurant management terms, procedures, policies, processes, standards, business practices, and performance calculations and formulas
6. **Purchasing and Receiving:** Apply concepts to lower costs and improve quality of ingredients. Reduce risk and ensure the security of supply and manage relationships with purveyors and improve quality of ingredients.
7. **Nutrition:** Describe the characteristics, functions, and food sources of major nutrients and how to maximize nutrient retention in food preparation and storage. Apply the principles of nutrient needs throughout the life cycle to menu planning and food preparation.
8. **Customer Service:** Identify customer service and guest relations standards and policies that must be in place for the successful operation of a hotel and restaurant.
9. **Environmental Sustainability:** Use knowledge of best practices to further sustainability (economic, environmental, and cultural/social) in the industry (sustainability)
10. **Leadership and Human Relationships:** Demonstrate knowledge and skills in a practical event environment.
11. **Multicultural Perspectives:** Demonstrate knowledge of multicultural perspectives to meet the needs of the guest and employees (customer service)

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Game Development (certificate)

Official Title of Certificate: Game Development, Certificate

Award: Certificate

Code: CRT.ART.GAME-DEV

Total Credit Hours: 18

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Purpose: The game development certificate is intended for professionals already holding a degree who wish to make a career change or update skills, or those who wish to gain skills in creating independent games. Credits earned for the certificate may be applied to the Visual Arts Professional AAS Game Development Area of Concentration. The program allows the student to choose from a range of gaming courses enabling the student to focus on his or her particular area of interest in game production. This certificate is not a substitute for a degree in game development.

Several degrees in gaming are available including Visual Arts Transfer AA Game Art and Design Area of Concentration, and the Visual Arts Professional AAS Game Development Area of Concentration. Look under ART for specific course listings.

Range of Occupations

- Independent game developer
- Game artist
- Game designer

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18 credits

Required Courses: 12 credits

- ART 155 - 2D Game Prototyping *3 credit hours*
- ART 157 - 3D Game Prototyping *3 credit hours*
- ART 159 - Game Interface Design *3 credit hours*
- ART 255 - Game Development *3 credit hours*

Choose two from the following: 6 credits

- ART 154 - 3D Computer Graphics *3 credit hours*
- ART 156 - 3D Game Graphics *3 credit hours*
- ART 158 - Game History *3 credit hours*
- ART 258 - Game Character Design *3 credit hours*
- ART 259 - Gaming Practicum *3 credit hours*

Program Outcomes

Upon successful completion of the Game Development Area of Concentration, students will be able to:

1. Produce and design game assets;
2. Evaluate game software and hardware;
3. Apply knowledge of game development, history, and testing in creation of game concepts and prototypes;
4. Collaborate with others professionally on game development.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Professional - Game Development (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Gender and Sexuality Studies (certificate)

Official Title of Certificate: Gender and Sexuality Studies, Certificate

Award: Certificate

Code: CRT.GSS.STDS

Total Credit Hours: 15

Visit www.aacc.edu to learn more about the Gender and Sexuality Studies Program

Purpose: The certificate in Gender and Sexuality Studies is offered for students who desire concentrated study in the field of Gender and Sexuality Studies for career purposes, personal enrichment, or as a pathway to the Associate of Arts degree in Transfer Studies or a more advanced degree in Gender and Sexuality Studies.

Multidisciplinary in nature, Gender and Sexuality Studies focuses on the role of gender and sexuality in the construction of individual identities, interpersonal relationships and social institutions. Courses promote an understanding of power and privilege in a social context. Students are encouraged to develop critical thinking skills by analyzing the ways in which gender and sexuality intersect with other social variables like class, race, ethnicity and disability.

Credits earned for the certificate may be applied to the Associate of Arts degree in Transfer Studies. The certificate also enables students to prepare for employment that focuses on the role of gender and sexuality in fields such as health, law, psychology, social work, education, public policy and business, and provides a credential offering evidence of concentrated study in the field of Gender and Sexuality Studies.

Additional Program Requirements

Completion of the required courses with a grade of C or better in each course.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 15 credits

- GSS 101 - Introduction to Women's Studies *3 credit hours*
- Four additional GSS courses *12 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Explain the significance of social diversity and the ways in which cultural values are historically and socially situated.
2. Explain the ways in which gender and sexuality intersect with race, ethnicity, class, dis/ability, religion, and other variables of identity.
3. Apply the concepts of structural inequality, power, privilege, and oppression to explain difference.
4. Explain the role of gender and sexuality in the construction of individual identities, interpersonal relationships, and social institutions.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Arts and Sciences Transfer - Gender and Sexuality Studies (A.A.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Gender and Sexuality Studies (lor)

Official Title of Letter of Recognition: Gender and Sexuality Studies, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: 9

Purpose: The Letter of Recognition in Gender and Sexuality Studies is offered for students who desire basic knowledge in the field of Gender and Sexuality Studies for career purposes, personal enrichment, or as a pathway to the certificate in Gender and Sexuality Studies.

Multidisciplinary in nature, Gender and Sexuality Studies focuses on the role of gender and sexuality in the construction of individual identities, interpersonal relationships and social institutions. Courses promote an understanding of power and privilege in a social context. Students are encouraged to develop critical thinking skills by analyzing the ways in which gender and sexuality intersect with other social variables like class, race, ethnicity and disability.

Credits earned for the letter of recognition may be applied to the certificate in Gender and Sexuality Studies and to the Associate of Arts degree in Transfer Studies. The letter of recognition also enables students to prepare for employment that focuses on the role of gender and sexuality in fields such as health, law, psychology, social work, education, public policy and business, and provides a credential offering evidence of concentrated study in the field of Gender and Sexuality Studies.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Degree/Award Requirements

Award Requirements

Completion of the required courses with a grade of C or better in each course. Students must apply to the Records and Registration office for the letter of recognition after they have completed the requirements.

Requirements: 9 credits

- GSS 101 - Introduction to Women's Studies *3 credit hours*
- Two additional GSS courses *6 credit hours*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Graphic Design (certificate)

Official Title of Certificate: Graphic Design, Certificate

Award: Certificate

Code: CRT.ART.GRPH-DSGN

Total Credit Hours: 25

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Purpose: The graphic design certificate is intended for professionals already holding a degree who wish to make a career change or update skills in the graphic design industry. Credits earned for the certificate may be applied to the Visual Arts Professional AAS Graphic Design Area of Concentration. The program provides an introduction to the design process from concept to completion. This certificate is not a substitute for a degree in graphic design.

Range of Occupations

- Entry-level graphic designer
- Freelance graphic designer
- Graphic artist
- Junior print designer
- Junior graphic designer

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 25 credits

- ART 100 - Two-Dimensional Design 3 *credit hours*
- ART 106 - Introduction to Digital Design 3 *credit hours*
- ART 262 - Image & Design 3 *credit hours*
- ART 120 - Digital Photography 1 3 *credit hours*
- ART 166 - Graphic Design 1 3 *credit hours*
- ART 170 - Web Design 1 3 *credit hours*
- ART 250 - Digital Portfolio Development 1 *credit hour*
- ART 264 - Fundamentals of Typography 3 *credit hours*
- ART 266 - Graphic Design 2 3 *credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply elements and principles of design to the creation of original design and art projects
2. Apply conceptual and production techniques in the creation of a wide variety of design projects
3. Use industry tools to solve design problems on a personal and client level
4. Analyze primary historical periods and cultural trends in art and graphic design
5. Develop a professional portfolio of work that demonstrates knowledge of type, color, form and layout

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Professional - Graphic Design (A.A.S.)
- Media Production (certificate)
- Photography (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Health Sciences (certificate)

Official Title of Certificate: Health Sciences, Certificate

Award: Certificate

Code: CRT.HEA-SCI

Total Credit Hours: 29-35

Visit www.aacc.edu to learn more about the School of Health Sciences

Purpose: This certificate is designed to provide a basis for further study in the health sciences field leading to a career. The Health Sciences Certificate provides a course of study designed to meet the needs of students who plan to study and transfer to a college that grants an associate degree in various Health Sciences programs as well as eligibility to Anne Arundel Community College Health Sciences programs. This special-purpose certificate is not intended to be a stand-alone program for work in the health sciences field. Students must speak with an advisor before enrolling in this program to ensure they select the appropriate general education and elective courses.

Note: The Health Sciences certificate is bundled with the Transfer Studies A.A. degree at time of admissions, as the course requirements for the certificate are stackable in the program and will fulfill course requirements for the Transfer Studies degree.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 29-35 credits

English Composition Requirement

- ENG 101 - Academic Writing and Research 1 3 *credit hours*

OR

ENG - 101A - Academic Writing and Research 1

Arts and Humanities Requirement

Biological and Physical Sciences Requirement

- BIO 101 - Foundations of Biology: Molecules and Cells 4 *credit hours*
AND

- BIO 233 - Anatomy and Physiology 1 4 *credit hours*
AND

- BIO 234 - Anatomy and Physiology 2 4 *credit hours*
OR

- BIO 231 - Human Biology 1 4 *credit hours*
AND

- BIO 232 - Human Biology 2 4 *credit hours*

Mathematics Requirement

Health Sciences career specific math general education course, seek advisement before registering

Social and Behavioral Sciences Requirement

- PSY 111 - Introduction to Psychology 3 *credit hours*

Additional Course Requirements

- MDA 113 - Medical Terminology 3 *credit hours*

Elective Courses

Health Sciences career specific electives (choose two), seek advisement before registering

- BIO 223 - General Microbiology 4 *credit hours*
- CHE 111 - General Chemistry 1 4 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
- HEA 111 - Personal and Community Health 3 *credit hours*
- PSY 211 - Developmental Psychology 3 *credit hours*
- SOC 111 - Introduction to Sociology 3 *credit hours*

Program Outcomes

Upon completion of the Health Sciences Certificate Program, the student will:

1. Explain the foundation that enhances preparation for continued study in the field of health sciences.
2. Describe and discuss basic medical terminology and recall facts, terms and basic concept in preparation for continued study in the field of health sciences.
3. Demonstrate an understanding of facts and ideas related to the field of health sciences by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas.
4. Locate, organize, and analyze information from multiple sources in order to develop informed, reasoned, and substantiated arguments
5. Demonstrate essential critical thinking skills and problem solving abilities needed to be successful in the field of health sciences.
6. Effectively review current literature, analyze data, and conduct evidenced based research.
7. Apply mathematical and scientific skills quantitatively and qualitatively.
8. Apply knowledge of diversity, equity and inclusion in society and in the field of health sciences.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Histotechnician (A.A.S.)

Special Admission Requirements - Program Application Deadline: July 15 *

Official Title of Major: Histotechnician, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.HTC.HISTOTECH

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the School of Health Sciences

Purpose: Prepares the student for employment as a histotechnician to meet the current and the increasing demands for histotechnicians in hospitals and clinical settings. Histotechnicians are members of the laboratory team who prepare specimens for research or medical diagnosis by pathologists. Histotechnicians work with fragile, delicate tissue specimens, laboratory instruments, knives, chemicals and glass slides, all of which require mastery of skills and competency.

Range of Occupations

- Histotechnician

Additional Program Requirements

A grade of C or better in each histotechnician and general education course is required to progress in the program. Students will be assessed on performing laboratory skills and procedures. Students must successfully complete two clinical courses designed for practical experience in a laboratory/clinical setting.

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

**If application deadline falls on a weekend, then applications will be accepted until the close of business on the next business day.*

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)

- How to Figure Your Cost Worksheet

Entrance/Admission Requirements

To view all entrance/admission details, please go to the Histotechnician Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see the Health Sciences section of this catalog.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

First Year - Term 1

- BIO 230 - Structure and Function of the Human Body *4 credit hours*
- HTC 100 - Introduction to Histology Safety and Techniques *4 credit hours*
- MAT 137 - College Algebra *3 credit hours*

English Composition: 3 credits

- ENG 101 - Academic Writing and Research 1 *3 credit hours* OR
- ENG 101A - Academic Writing and Research 1 *3 credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Total credit hours: 14

First Year - Term 2

- CHE 111 - General Chemistry 1 *4 credit hours*
- HTC 101 - Basic Histotechnology *4 credit hours*
- MAT 135 - Statistics *3 credit hours*
- MDA 110 - Professionalism in Health Care *1 credit hours*

English Composition: 3 credits

- ENG 102 - Academic Writing and Research 2 *3 credit hours*

Total credit hours: 15

Second Year - Term 1

- COM 111 - Fundamentals of Oral Communication *3 credit hours*
- CTA 100 - Computing and Information Technology *3 credit hours*

- HTC 201 - Advanced Histotechnology 4 *credit hours*
- HTC 204 - Genetics, Microbiology and Pathogenic Diseases of the Body 3 *credit hours*
- PSY 111 - Introduction to Psychology 3 *credit hours*

Total credit hours: 16

Second Year - Term 2

- HEA 111 - Personal and Community Health 3 *credit hours*
- HTC 202 - Histotechnology Laboratory Clinical 1 3 *credit hours*
- HTC 203 - Histotechnology Laboratory Clinical 2 3 *credit hours*
- HTC 205 - Histotechnology Review 3 *credit hours*
- SOC 111 - Introduction to Sociology 3 *credit hours*

Total credit hours: 15

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Satisfied by CTA 100.

Wellness Requirement

Satisfied by HEA 111.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Utilize technical, critical thinking, and problem-solving skills in their didactic and clinical experiences in the histotechnician program.
2. Recognize factors that affect procedures and results, and take appropriate action within predetermined limits when corrections are indicated.
3. Recognize the responsibilities of other laboratory and healthcare professionals and interacting with them with respect for their jobs and patient care.
4. Recognize and act upon individual needs for continuing education as a function of growth and maintenance of professional competence.
5. Exercise principles of management, safety, and supervision, as the primary analyst making specimen-oriented decisions on predetermined criteria, including a working knowledge of criteria values related to specimen processing, information processing, training, and quality control monitoring.
6. Apply ethical values and appropriate legal standards in histotechnology laboratory practice.
7. Promote advocacy of the profession through affiliations with professional organizations, marketing of professional skills, and by becoming vital members of the health care delivery system.
8. Apply knowledge of cultural and socioeconomic differences to the practice of histotechnology.
9. Participate in continuing education and the development of new knowledge and skills.
10. Obtain eligibility to sit for national certification as a histotechnician offered by the American Society for Clinical Pathology Board of Certification.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Homeland Security Management - Homeland Security Management (A.A.S.)

Official Title of Major: Homeland Security Management, A.A.S.

Type of Award: Associate of Applied Science degree, A.A.S.

Code: AAS.HLS.HMLD.SEC-MGT

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

Purpose: In the aftermath of the September 11, 2001, terrorist attacks, the Office of Homeland Security was created to strategically coordinate government agencies in order to better forecast, prevent, and defend against future terrorist threats. Six key operational areas are now the focus of Homeland Security: intelligence and warning, border and transportation security, domestic counterterrorism, protecting critical infrastructure, defending against catastrophic threats, and emergency preparedness and response.

The Homeland Security Management area of concentration prepares students for careers in the homeland security industry. Students will examine a span of local, national, and international issues and operations from terrorism to disaster planning and response.

Range of Occupations

- U.S. Secret Service
- Transportation Security officer
- Customs and Border Patrol officer
- Federal Law Enforcement officer
- Emergency Management specialist
- Immigration Services officer

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement

Arts and Humanities: 3 credits

- AMS 100 - Introduction to American Studies 3 *credit hours*

Biological and Physical Sciences: 3 credits

See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- GEO 102 - World Regional Geography 3 *credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 *credit hours*

CTP 103 is recommended. This requirement may also be satisfied by CLEP exam. See General Education Technology Requirements for list of additional approved courses.

- **Wellness Requirement** 3 *credit hours*

EMT 104 - Emergency Medical Care, CPR & AED 3 credit hours

OR

HEA 150 - Advanced First Aid, CPR and AED 3 credit hours

These courses satisfy the General Education Wellness Requirement.

Program Requirements: 18 credits

- CJS 260 - Terrorism/Counterterrorism 3 *credit hours*
(formerly listed as HLS 260)
- HLS 111 - Introduction to Homeland Security 3 *credit hours*
- HLS 112 - National Security Law 3 *credit hours*
- HLS 212 - Survey of Weapons of Mass Destruction 3 *credit hours*
- HLS 213 - Transportation and Border Security 3 *credit hours*
- SOC 111 - Introduction to Sociology 3 *credit hours*

Area of Concentration Requirements: 18 credits

- CJS 206 - Cybercrime 3 credit hours
- ECO 116 - Inside the Global Economy 3 credit hours
- HLS 114 - Maryland and Terrorism 3 credit hours
- HLS 211 - Intelligence Analysis and Security Management 3 credit hours
- HLS 265 - Homeland Security, Emergency Management and Response Seminar 3 credit hours
- **Elective** (consult with an advisor) 3 credit hours

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Students must satisfy the Technology Requirement. Can be satisfied by CTP 103 (recommended) or by CLEP exam.

Wellness Requirement

Satisfied by EMT 104 or HEA 150.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Differentiate between ethical and unethical actions regarding homeland security practices.
2. Demonstrate effective verbal communications skills.
3. Identify ethnic, cultural, national, religious, and political ideologies.
4. Examine and interpret forensic evidence to reconstruct terrorist events.
5. Outline the myriad weapons of mass destruction/disruption, as well as critical land and water vulnerabilities.
6. Develop strategies to generate intelligence.
7. Apply key principles in border control and transportation security to solve problems related to homeland security.
8. Write clear, concise, and accurate reports.

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Homeland Security Management - Intelligence Analytics (A.A.S.)
- Homeland Security Management - Transportation and Border Security (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Homeland Security Management - Intelligence Analytics (A.A.S.)

Official Title of Major: Homeland Security Management - Intelligence Analytics, A.A.S.

Award: Associate of Applied Science, A.A.S.

Code: AAS.HLS.INTEL-ANLYS

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

Purpose: In the aftermath of the September 11, 2001, terrorist attacks, the Office of Homeland Security was created to strategically coordinate government agencies in order to better forecast, prevent, and defend against future terrorist threats. Six key operational areas are now the focus of Homeland Security: intelligence and warning, border and transportation security, domestic counterterrorism, protecting critical infrastructure, defending against catastrophic threats, and emergency preparedness and response.

The Intelligence Analytics area of concentration provides students with a critical understanding of the complex nature of the intelligence community and its role in supporting U.S. national security.

Range of Occupations

- Intelligence Analysts
- FBI Investigative Assistants
- Weapons Analysts
- Counterterrorism Analysts

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
 - ENG 102 - Academic Writing and Research 2 3 *credit hours*
- ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.*

Arts and Humanities: 3 credits

- AMS 100 - Introduction to American Studies 3 *credit hours*

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- GEO 102 - World Regional Geography 3 *credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 *credit hours*

CTP 103 is recommended. This requirement may also be satisfied by CLEP exam. Refer to General Education Technology Requirements for list of additional approved courses.

- **Wellness Requirement** 3 *credit hours*

EMT 104 - Emergency Medical Care, CPR & AED 3 *credit hours*

OR

HEA 150 - Advanced First Aid, CPR and AED 3 *credit hours*

These courses meet the General Education Wellness Requirement

Program Requirements: 18 credits

- CJS 260 - Terrorism/Counterterrorism 3 *credit hours*
- HLS 111 - Introduction to Homeland Security 3 *credit hours*
- HLS 112 - National Security Law 3 *credit hours*
- HLS 212 - Survey of Weapons of Mass Destruction 3 *credit hours*
- HLS 213 - Transportation and Border Security 3 *credit hours*
- SOC 111 - Introduction to Sociology 3 *credit hours*

Area of Concentration Requirements: 18 credits

- CJS 206 - Cybercrime 3 *credit hours*
 - HLS 211 - Intelligence Analysis and Security Management 3 *credit hours*
- OR**
- HLS 220 - Intelligence and U.S. National Security 3 *credit hours*
 - HLS 225 - Introduction to Intelligence Analytics 3 *credit hours*

- HLS 230 - Intelligence Support to the Policy Maker and Military 3 credit hours
- HLS 240 - National Security Challenges of the 21st Century 3 credit hours
- **Elective (consult with an advisor) 3 credit hours**

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Students must satisfy the Technology Requirement. Can be satisfied by CTP 103 (recommended) or by CLEP exam.

Wellness Requirement

Satisfied by EMT 104 or HEA 150.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Differentiate ethical and unethical actions regarding homeland security practices.
2. Identify ethnic, cultural, national, religious, and political ideologies as it relates to homeland security.
3. Examine and interpret homeland security and intelligence evidence.
4. Demonstrate effective problem solving in the field of homeland security.
5. Communicate clear, concise and accurate reports as it relates to homeland security and intelligence.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Homeland Security Management - Homeland Security Management (A.A.S.)
- Homeland Security Management - Transportation and Border Security (A.A.S.)
- Intelligence Analytics (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Homeland Security Management - Transportation and Border Security (A.A.S.)

Official Title of Major: Homeland Security Management - Transportation and Border Security, A.A.S.

Award: Associate of Applied Science, A.A.S.

Code: AAS.HLS.TPT-BDR-SEC

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

Purpose: In the aftermath of the September 11, 2001, terrorist attacks, the Office of Homeland Security was created to strategically coordinate government agencies in order to better forecast, prevent, and defend against future terrorist threats. Six key operational areas are now the focus of Homeland Security: intelligence and warning, border and transportation security, domestic counterterrorism, protecting critical infrastructure, defending against catastrophic threats, and emergency preparedness and response.

The Transportation and Border Security area of concentration provides students with concepts and practices in local, state, federal and international law enforcement specifically related to securing and defending land and water boundaries in the U.S. against terrorist and criminal activities and other natural disasters.

Range of Occupations

- Port Security personnel
- Transportation Security Administration officers
- U.S. Immigration and Customs Enforcement personnel
- U.S. Customs and Border Protection personnel

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- AMS 100 - Introduction to American Studies 3 *credit hours*

Biological and Physical Sciences: 3 credits

Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- GEO 102 - World Regional Geography 3 credit hours

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 credit hours
CTP 103 is recommended. This requirement may also be satisfied by CLEP exam. Refer to General Education Technology Requirements for list of additional approved courses.

- **Wellness Requirement** 3 credit hours
EMT 104 - Emergency Medical Care, CPR & AED 3 credit hours

OR

HEA 150 - Advanced First Aid, CPR and AED 3 credit hours
These courses meet the General Education Wellness Requirement.

Program Requirements: 18 credits

- CJS 260 - Terrorism/Counterterrorism 3 credit hours
- HLS 111 - Introduction to Homeland Security 3 credit hours
- HLS 112 - National Security Law 3 credit hours
- HLS 212 - Survey of Weapons of Mass Destruction 3 credit hours
- HLS 213 - Transportation and Border Security 3 credit hours
- SOC 111 - Introduction to Sociology 3 credit hours

Area of Concentration Requirements: 18 credits

- ECO 116 - Inside the Global Economy 3 credit hours
- HIS 212 - United States History Since the Civil War 3 credit hours
- HLS 114 - Maryland and Terrorism 3 credit hours
- HLS 211 - Intelligence Analysis and Security Management 3 credit hours
- HLS 265 - Homeland Security, Emergency Management and Response Seminar 3 credit hours
- **Elective (consult with an advisor)** 3 credit hours

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Students must satisfy the Technology Requirement. Can be satisfied by CTP 103 (recommended) or by CLEP exam.

Wellness Requirement

Satisfied by EMT 104 or HEA 150.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Differentiate ethical and unethical actions regarding homeland security practices.
2. Identify ethnic, cultural, national, religious, and political ideologies as it relates to homeland security.
3. Examine and interpret homeland security evidence.
4. Apply key principles in border control and transportation security to solve problems related to homeland security.
5. Communicate clear, concise and accurate reports as it relates to homeland security.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Homeland Security Management - Homeland Security Management (A.A.S.)
- Homeland Security Management - Intelligence Analytics (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Hospitality Management (certificate)

Official Title of Certificate: Hospitality Management, Certificate

Award: Certificate

Code: CRT.HRM.HSP.MGMT

Total Credit Hours: 18

Visit www.aacc.edu to learn more about the Hotel, Culinary Arts and Tourism Institute

Purpose: Prepares students for entry-level supervisory positions in the hospitality industry or for specialized industry management training programs in the lodging industry. An overview of lodging departments, technology, as well as management functions is included. A range of specialty courses provide knowledge in entry level positions across the hospitality industry.

Range of Occupations

- Assistant purchasing manager
- Concierge
- Food and beverage shift supervisor
- Front desk agent
- Front desk supervisor
- Guest service agent
- Sales coordinator
- Restaurant Manager

Additional Requirements for this Program

Demonstrated eligibility for ENG 101/ENG 101A and MAT 100.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18 credits

- BPA 171 - Principles of Supervision *3 credit hours*
- BPA 125 - Principles of Marketing *3 credit hours*
- or
- BPA 127 - Digital Marketing and Analytics *3 credit hours*
- HRM 232 - World Culture and Cuisine: A Social Science Perspective *3 credit hours*
- HRM 256 - Hotel Property Management *3 credit hours*
- HRM 260 - Purchasing and Cost Controls *3 credit hours*
- HRM 275 - Internship in Hotel/ Restaurant Management *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. **Food Safety:** Apply and evaluate safe, sanitary procedures, habits, and behaviors in hotel and restaurant facilities.
2. **Customer Service:** Identify customer service and guest relations standards and policies that must be in place for the successful operation of a hotel and restaurant.
3. **Multicultural Perspectives:** Demonstrate knowledge of multicultural perspectives to meet the needs of the guest and employees (customer service)
4. **Sustainability:** Use knowledge of best practices to further sustainability (economic, environmental, and cultural/social) in the industry (sustainability)
5. **Management:** Identify and define important concepts related to the successful management and operation of hotels and restaurants.
6. **Leadership and Human Relationships:** Identify and incorporate the appropriate event elements and services to meet the goals and objectives of an event.
7. **Marketing:** Practice effective sales techniques and procedures including marketing, public relations, and entrepreneurship (Marketing)
8. **Application of Skills and Major Concepts:** Identify and explain common hotel and restaurant management terms, procedures, policies, processes, standards, business practices, and performance calculations and formulas
9. **Technology Integration:** Integrate current industry technologies in all aspects of hospitality management (Hospitality Technology)

This program aligns with the college's core competencies.

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Hotel/Restaurant Management - Culinary Arts, Baking & Pastry, Hospitality Management (A.A.S.)

Total Credit Hours: Minimum of 61

Visit www.aacc.edu to learn more about the Hotel, Culinary Arts and Tourism Institute

Accreditation: The Hotel/Restaurant Management Culinary Arts Concentration Associate of Applied Science degree and the Hotel/Restaurant Management Baking and Pastry Arts Concentration Associate of Applied Science degree is accredited by the American Culinary Federation Education Foundation Accrediting Commission (ACFEFAC). The Hotel/Restaurant Management Hospitality Management Concentration Associate of Applied Science degree is accredited by the Accrediting Commission for Programs in Hospitality Administration (ACPHA).

Purpose: Prepares students for entry-level supervisory positions in the hospitality industry or for specialized industry management training programs. An internship course and a range of hotel and restaurant operation management courses provide students with the opportunity to gain knowledge and specialty experience in restaurants, hotels, health care facilities or meeting and conference planning.

Uniform: Students are required to wear an approved chef uniform for production classes. See course description for specifics.

Areas of Concentration: This degree requires that students choose a concentration in one of three areas. A concentration is a structured plan of study within a degree program. The number of credit hours and particular course requirements for a concentration may vary, as listed below. To achieve a concentration, students must receive credit for every course requirement listed under that concentration.

Three Areas of Concentration

1. Hotel/Restaurant Management - Culinary Arts (AAS.HRM.CULINARY-A): The Culinary Arts area of concentration prepares students for employment in the hospitality industry with essential skills and content in culinary operations. The student will learn to use that knowledge as it relates to operating a successful and profitable business. The Culinary Arts area of concentration requires 18 credit hours within the chosen concentration.

Range of Occupations

- Cook, Pastry Cook
- Manager-in-training
 - Catering and sales
 - Food and beverage
 - Food service manager in assisted living facility or nursing home
 - Bakery
 - Kitchen
 - Restaurant
 - Hotel

2. Hotel/Restaurant Management - Baking and Pastry Arts (AAS.HRM.BAK-PASTRY): The Baking and Pastry Arts area of concentration prepares students for employment in the hospitality industry with essential skills and content in baking and pastry operations. The student will learn to use that knowledge as it relates to operating a successful and profitable business. The Baking and Pastry Arts area of concentration requires 18 credit hours within the chosen concentration.

Range of Occupations

- Pastry Cook
- Manager-in-training
 - Catering and sales
 - Food and beverage
 - Food service manager in assisted living facility or nursing home
 - Bakery
 - Kitchen

- Restaurant
- Hotel

3. Hotel/Restaurant Management - Hospitality Management (AAS.HRM.HOSPITALITY): The Hospitality Management area of concentration prepares students for employment in the hospitality industry with essential skills and content in hospitality operations. This concentration will integrate major business segments of the hospitality industry. This area of concentration offers the student essential courses both in hotel and food and beverage operations management. The Hospitality Management area of concentration requires 18 credit hours within the chosen concentration.

Range of Occupations

- Hotel/Restaurant Operations
- Manager-in-training
 - Catering and sales
 - Food and beverage
 - Food service manager in assisted living facility or nursing home
 - Restaurant
 - Hotel

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 21 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- COM 111 - Fundamentals of Oral Communication 3 *credit hours* **OR**

- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 credit hours

Biological and Physical Sciences: 3 credits

See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Technology: 3 credits

- CTA 100 - Computing and Information Technology 3 credit hours

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- HRM 232 - World Culture and Cuisine: A Social Science Perspective 3 credit hours

Program Requirements: 16 credits

These are common program requirements for all three areas of concentration.

- HRM 111 - Introduction to the Hospitality Industry 3 credit hours
- HRM 119 - Certification in Sanitation 1 credit hour
- HRM 121 - Introduction to Cooking 3 credit hours
- HRM 251 - Restaurant Management 3 credit hours
- HRM 260 - Purchasing and Cost Controls 3 credit hours
- HRM 275 - Internship in Hotel/ Restaurant Management 3 credit hours

Students must select one Area of Concentration in Culinary Arts, Baking and Pastry Arts or Hospitality Business Management as specified below: 24 credits

Culinary Arts Area of Concentration Requirements: 24 credits

Degree Awarded: Hotel and Restaurant Management - Culinary Arts

- HRM 123 - Cooking Techniques 1 3 credit hours
- HRM 124 - Introduction to Baking and Pastry 3 credit hours
- HRM 190 - Food Science and Nutritional Cooking 3 credit hours
- HRM 205 - Cooking Techniques 2 3 credit hours
- HRM 220 - Garde Manger 3 credit hours
- HRM 223 - International Cuisine 3 credit hours
- HRM 225 - Restaurant Production and Simulation 3 credit hours
- **HRM Elective** 3 credit hours

Baking and Pastry Arts Area of Concentration Requirements: 24 credits

Degree Awarded: Hotel and Restaurant Management - Baking and Pastry Arts

- HRM 124 - Introduction to Baking and Pastry 3 credit hours
- HRM 190 - Food Science and Nutritional Cooking 3 credit hours
- HRM 201 - Intermediate Bread Production 3 credit hours

- HRM 202 - Intermediate Cake Production 3 credit hours
- HRM 203 - Intermediate Pastry Production 3 credit hours
- HRM 226 - Advanced Pastry Production 3 credit hours
- HRM 227 - Chocolates, Confections, and Entremet 3 credit hours
- **HRM Elective** 3 credit hours

Hospitality Management Area of Concentration Requirements: 24 credits

Degree Awarded: Hotel and Restaurant Management - Hospitality Management

- BPA 171 - Principles of Supervision 3 credit hours
- BPA 125 - Principles of Marketing 3 credit hours
OR
- BPA 127 - Digital Marketing and Analytics 3 credit hours
- HRM 140 - Event Planning 3 credit hours
- HRM 240 - Meeting and Conference Planning 3 credit hours
- HRM 253 - Catering Management 3 credit hours
- HRM 256 - Hotel Property Management 3 credit hours
- **HRM or ESI Elective** 3 credit hours
- **Wellness requirement** 3 credit hours
This area of concentration requires a general education wellness course.

Diversity Requirement

Satisfied by HRM 232.

Technology Requirement

Satisfied by CTA 100.

Wellness Requirement

Wellness Requirement satisfied throughout the program by the combination of HRM 119, HRM 190 and HRM 232 or General Education Wellness Requirement course.

Program Outcomes

Upon successful completion of this program, students will be able to:

- **PROFESSIONALISM:** Apply personal skills, including, but not limited to, adherence to accepted professional standards and codes of conduct. Apply hospitality and culinary terminology.
- **SERVICE:** Analyze methods of service and management principles for all hospitality operations.
- **TECHNOLOGY:** Use computer technology appropriately in hospitality and culinary operations. Apply technology to hospitality and culinary operations.
- **INCLUSIVENESS:** Explain the dynamics of the changing global business environment. Discuss food and dietary issues from cultural, religious, historical and geographical perspectives.
- **SAFETY & SANITATION:** Operate commercial kitchen equipment in a safe and efficient manner. Apply proper cooking and sanitation techniques. Obtain ServSafe® Sanitation Certificate.
- **LEADERSHIP:** Develop and meet the highest standards of professional competence, ethical behavior, technical excellence, and decision making.

- **MARKETING:** Examine strategies to serve the current needs of the hospitality industry. Discuss contemporary hospitality and culinary trends.
- **NUTRITION:** Apply accepted nutrition standards that lead to positive health benefits.
- **INDUSTRY MATH:** Apply appropriate math skills to culinary arts operations and business environments.
- **PURCHASING AND COST CONTROLS:** Apply principles of effective purchasing and of cost control, related to the hospitality and culinary industry.

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Baking and Pastry Arts (certificate)
- Culinary Arts (certificate)
- Fundamentals of Cooking and Baking Option (certificate)
- Event Planning and Catering (certificate)
- Hospitality Management (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Human Services (A.A.S.)

Official Title of Major: Human Services, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.HUS.HUS

Total Credit Hours: A minimum of 60

Visit www.aacc.edu to learn more about the Human Services Degree Program

Purpose: To train graduates to work as human services generalists in a variety of entry-level positions in mental health, social work, human services administration, addictions and other human services occupations. Graduates can transfer into various social work and/or human services Bachelor degree programs. To view articulation agreements go to the Transfer Partners webpage.

The A.A.S. degree in Human Services is accredited through the Council for Standards in Human Service Education. This accreditation assures that the program meets the required 20 standards. Accreditation allows human services graduates to apply to become a Nationally Certified Human Services Professional through the National Organization for Human Services (NOHS). For more information about NOHS and the Certified Human Services Professions visit www.nationalhumanservices.org.

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Range of Occupations

- Adult day care worker
- Behavioral management aide
- Community outreach worker
- Family support worker
- Social work assistant
- Substance abuse counselor

Additional Program Requirements

Students are strongly encouraged to start in the fall term and follow the prescribed program in order to finish in two years. Students must maintain a grade of C or better in all human services and fieldwork courses. They also must perform satisfactorily in the fieldwork area in order to graduate. Two fieldwork courses include 125 clinical (unpaid) hours within each term.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Entrance/Admission Requirements

Entrance Requirements

Demonstrated eligibility for ENG 101/ENG 101A.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see the Health Sciences section of this catalog.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Human Services Program Sequence

Program Requirements

First Year - Term 1

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.
- HUS 100 - Introduction to Human Services 3 *credit hours*
- HUS 101 - Human Service and Addiction Counseling Ethics in Practice 3 *credit hours*
- HUS 141 - Group Dynamics 3 *credit hours*
- SOC 111 - Introduction to Sociology 3 *credit hours*

Total credit hours: 15

First Year - Term 2

- ENG 102 - Academic Writing and Research 2 3 *credit hours*
- COM 111 - Fundamentals of Oral Communication 3 *credit hours* **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours*
- HUS 114 - Counseling, Assessment and Case Management 3 *credit hours*
- HUS 115 - Fieldwork: Counseling, Assessment and Case Management 3 *credit hours*
- PSY 111 - Introduction to Psychology 3 *credit hours*

Total credit hours: 15

Second Year - Term 1

- BIO 101 - Foundations of Biology: Molecules and Cells 4 *credit hours* **OR**
- BIO 230 - Structure and Function of the Human Body 4 *credit hours*
- HUS 130 - Introduction to Family Counseling 3 *credit hours*
- HUS 234 - Trauma Informed Care 2 *credit hours*

Mathematics: 3-4 credits

General education requirement, see General Education Mathematics Requirements. If planning to transfer to a social work program you should take MAT 135. Please refer to Transfer Agreements for all specific requirements for Bachelor degree programs.

Wellness: 3 credits

General education requirement, see General Education Wellness Requirements.

Total credit hours: 15-16

Second Year - Term 2

- HUS 211 - Crisis Intervention and Counseling 3 *credit hours*
- HUS 216 - Theories of Counseling 3 *credit hours*
- HUS 217 - Fieldwork: Theories of Counseling 3 *credit hours*
- PSY 214 - Abnormal Psychology 3 *credit hours*
This course meets a General Education Requirement while simultaneously meeting a Program Requirement for this degree. This course is required for Fast Track students.

Technology: 3 credits

- CTA 100 - Computing and Information Technology 3 *credit hours* **OR**
- CTP 103 - Theories and Applications of Digital Technology 3 *credit hours*

Total credit hours: 15

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

By the end of the program, students will be able to:

1. Demonstrate basic counseling and case management skills and techniques in order to facilitate client services.

- a. Client Intervention and Strategies (Standard 16)
- b. Interpersonal Skills (Standard 17)
- 2. Design a plan to assess clients, design and implement specific and measurable goals.
 - a. Program Evaluation and Planning (Standard 15)
- 3. Describe the administrative aspects of service delivery.
 - a. Human Services Delivery (Standard 13)
 - b. Client Intervention and Strategies (Standard 16)
- 4. Develop interpersonal skills with clients and team members and demonstrate professional behaviors.
 - a. Interpersonal Skills (Standard 17)
 - b. Client Related Values and Attitudes (Standard 18)
 - c. Self-Development (Standard 19)
- 5. Examine how their own values, personalities, reaction patterns, interpersonal styles, limitations and self-care practices impact their role as a human services professional.
 - a. Interpersonal Skills (Standard 17)
 - b. Client Related Values and Attitudes (Standard 18)
 - c. Self-Development (Standard 19)
- 6. Analyze the importance of family, social networks, and community systems in the treatment process
 - a. Client Intervention and Strategies (Standard 16)
- 7. Student will identify community resources.
 - a. Client Intervention and Strategies (Standard 16)
- 8. Students will demonstrate effective group facilitation skills.
 - a. Human Systems (Standards 12)
 - b. Client Intervention and Strategies (Standard 16)
- 9. Examine diverse cultures, and incorporate the relevant needs of culturally diverse groups, as well as people with disabilities, into clinical practice.
 - a. Interpersonal Skills (Standard 17)
 - b. Client Related Values and Attitudes (Standard 18)
- 10. Summarize the field of human services and addiction professional's obligations to adhere to legal, ethical and behavioral standards of conduct in the helping relationship.
 - a. Interpersonal Skills (Standard 17)
 - b. Client Related Values and Attitudes (Standard 18)
- 11. Identify and explain historical development of Human Services.

a. History (Standard 11)

12. Assess the conditions which promote or limit human functioning within the human system.

a. Human Systems (Standard 12)

b. Human Services Delivery (Standard 13)

c. Program Planning and Evaluation (Standard 15)

13. Complete required fieldwork with the Human Services Department and apply meaningful connections between classroom learning and experiences in field.

a. Field Experience (Standard 20)

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Human Services (certificate)

Official Title of Certificate: Human Services, Certificate

Award: Certificate

Code: CRT.HUS.HUS

Total Credit Hours: 30

Visit www.aacc.edu to learn more about the Human Services Certificate Program

Purpose: To give employees and volunteers associated with helping agencies knowledge and upgrading of skills in the human services area. This certificate is also appropriate for students to test their interest in the field before committing to a degree program. Students may subsequently apply these credits toward the Associate of Applied Science degree in human services.

Range of Occupations

- Adult day care worker
- Family support worker
- Social work assistant
- Community outreach worker
- Behavioral management aide

Additional Program Requirements

Students must earn a grade of C or better in all human services and fieldwork courses.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Entrance/Admission Requirements

Admission Requirements

Demonstrated eligibility for ENG 101 /ENG 101A.

Criminal Background Checks and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see the Health Sciences section of this catalog.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 30 credits

General Course Requirements

- PSY 111 - Introduction to Psychology *3 credit hours*

Human Services Core Course Requirements

- HUS 100 - Introduction to Human Services *3 credit hours*
- HUS 101 - Human Service and Addiction Counseling Ethics in Practice *3 credit hours*
- HUS 114 - Counseling, Assessment and Case Management *3 credit hours*
- HUS 115 - Fieldwork: Counseling, Assessment and Case Management *3 credit hours*
- HUS 141 - Group Dynamics *3 credit hours*
- HUS 216 - Theories of Counseling *3 credit hours*
- HUS 217 - Fieldwork: Theories of Counseling *3 credit hours*
- Electives approved by Human Services Program advisor (recommend two additional HUS courses) *6 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate basic counseling and case management skills and techniques in order to facilitate client services.
 - a. Client Intervention and Strategies (Standard 16)
 - b. Interpersonal Skills (Standard 17)
2. Design a plan to assess clients, design and implement specific and measurable goals.
 - a. Program Evaluation and Planning (Standard 15)
3. Describe the administrative aspects of service delivery.
 - a. Human Services Delivery (Standard 13)
 - b. Client Intervention and Strategies (Standard 16)
4. Develop interpersonal skills with clients and team members and demonstrate professional behaviors.
 - a. Interpersonal Skills (Standard 17)
 - b. Client Related Values and Attitudes (Standard 18)
 - c. Self-Development (Standard 19)

5. Examine how their own values, personalities, reaction patterns, interpersonal styles, limitations and self-care practices impact their role as a human services professional.
 - a. Interpersonal Skills (Standard 17)
 - b. Client Related Values and Attitudes (Standard 18)
 - c. Self-Development (Standard 19)
6. Analyze the importance of family, social networks, and community systems in the treatment process
 - a. Client Intervention and Strategies (Standard 16)
7. Student will identify community resources.
 - a. Client Intervention and Strategies (Standard 16)
8. Students will demonstrate effective group facilitation skills.
 - a. Human Systems (Standards 12)
 - b. Client Intervention and Strategies (Standard 16)
9. Examine diverse cultures, and incorporate the relevant needs of culturally diverse groups, as well as people with disabilities, into clinical practice.
 - a. Interpersonal Skills (Standard 17)
 - b. Client Related Values and Attitudes (Standard 18)
10. Summarize the field of human services and addiction professional's obligations to adhere to legal, ethical and behavioral standards of conduct in the helping relationship.
 - a. Interpersonal Skills (Standard 17)
 - b. Client Related Values and Attitudes (Standard 18)
11. Identify and explain historical development of Human Services.
 - a. History (Standard 11)
12. Assess the conditions which promote or limit human functioning within the human system.
 - a. Human Systems (Standard 12)
 - b. Human Services Delivery (Standard 13)
 - c. Program Planning and Evaluation (Standard 15)
13. Complete required fieldwork with the Human Services Department and apply meaningful connections between classroom learning and experiences in field.
 - a. Field Experience (Standard 20)

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Information Assurance and Cybersecurity (A.A.S.)

Award: Associate of Applied Science degree, A.A.S.

Total Credit Hours: a minimum of 61

Visit www.aacc.edu to learn more about the Cybersecurity, Networking and Digital Forensics Department

Purpose: Provides training in computer security disciplines with three specific focus areas: security, digital forensics and networking. These degrees prepare students for entry level positions in information assurance and cybersecurity.

Additional Program Requirements

A grade of C or better is required in each Information Assurance and Cybersecurity program course requirement.

Areas of Concentration: This degree requires that students choose a concentration in one of three areas. A concentration is a structured plan of study within a degree program. The number of credit hours and particular course requirements for a concentration varies, as listed below. To achieve a concentration, students must receive credit for every course requirement listed under that concentration.

Three Concentrations:

1. Information Assurance and Cybersecurity - Security (code AAS.CIS.SECURITY): This program emphasizes computer security and information assurance concepts augmented with current accepted industry practices. Topics cover threats and vulnerabilities, prevention at the technical (hardware and software) and human levels, detection, response, and management aspects of security. This program fully maps to the requirements of DHS/NSA Centers of Academic Excellence in Cyber Defense Education.

Range of Occupations

- Security specialist
- Information assurance security specialist
- Information systems security analyst
- Manager of network and data security
- Applications security specialist
- Operating system security specialist

2. Information Assurance and Cybersecurity - Digital Forensics (code AAS.CIS.DIGITAL-FRSC): The program emphasizes the proper handling of digital evidence; tools and techniques utilized in forensics analysis, importance of proper documentation and report generation; and the laws and ethics governing evidence handling. The program fully maps to the eight knowledge domains currently specified by the Department of Defense Cyber Crime Center (DC3) and fully prepares students for the Magnet Certified Forensic Examiner (MCFE) exam. Upon completion of the Digital Forensics area of concentration degree, students are eligible for DoD/DC3 National Centers of Digital Forensics Academic Excellence program certificates.

Range of Occupations

- Computer forensic investigator
- Corporate forensic investigator
- Incident Handler
- Incident Responder
- Law enforcement investigator
- Legal investigator
- Private investigator
- Financial investigator
- Loss prevention agent
- Computer forensic analyst
- Counterintelligence agent
- Policy analyst
- eDiscovery specialist
- eDiscovery project manager
- Data restoration specialist
- Forensics analyst
- Forensics consultant
- Forensic science technician
- Technology risk management professional

3. Information Assurance and Cybersecurity - Networking (code AAS.CIS.NETWORK): This program emphasizes installing, repairing and administering local and wide area networks. The program incorporates a study of data communication fundamentals together with an in-depth study of current networking architectures and protocols. Client/server and peer networks are studied together with hands-on laboratory time working with Microsoft, Linux and Cisco systems.

Range of Occupations

- LAN system administration
- Network installation
- Network management
- WAN Management Technology
- Linux administrator
- Windows Server administrator
- System administrator

Related Industry Certifications: These programs also provide the foundation for the following industry recognized certifications: CompTIA Network+ and CompTIA Security+.

Graduates in these fields will find positions available in industry, education and government.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 21 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- CTP 194 - Ethics and the Information Age 3 *credit hours*

Biological and Physical Sciences: 3 credits

- BIO 135 - Principles of Nutrition 3 *credit hours*
BIO 135 satisfies the college Wellness Requirement.
If you have already satisfied the college Wellness Requirement, you may elect to take any Biological and Physical Sciences General Education Requirement course. Please contact the academic chair for more information.

Mathematics: 3 credits

- MAT 135 - Statistics 3 *credit hours*
- OR MAT 137 - College Algebra 3 *credit hours*
Or more advanced level if qualified.

Social and Behavioral Sciences: 3 credits

Students should select a course that satisfies the college Diversity requirement. See General Education Social and Behavioral Sciences and Diversity Requirements for a list of approved courses.

Additional General Education Requirement: 3 credits

- CTS 107 - Cyber Essentials 3 *credit hours*
This course meets the General Education Technology Requirement.

Program Requirements: 40 credits

These are the 17 credits of common program requirements for all three areas of concentration. Students must complete all of these courses with a grade of C or better.

- CTS 110 - Network Essentials 4 *credit hours*
- CTS 120 - Introduction to Linux 4 *credit hours*
- CTS 140 - Network Security Fundamentals 4 *credit hours*
- CTS 234 - Windows Server 4 *credit hours*
- CYB 270 - Cyber Capstone 1 *credit hour*

Students must select one Area of Concentration in Security, Digital Forensics, or Networking:

Security Area of Concentration Requirements: 23 credits

Degree Awarded: Information Assurance and Cybersecurity - Security Concentration (AAS.CIS.SECURITY). Students must complete all of these courses with a grade of C or better.

- CTS 130 - Networking 1 4 *credit hours*
- CTS 131 - Networking 2 4 *credit hours*
- CTS 240 - Advanced Network Defense 4 *credit hours*
- CTS 242 - Network Intrusion Detection and Penetration Testing 4 *credit hours*

Security Area of Concentration Electives 7 credit hours

Must choose 7 credit hours from the following list to achieve the 61 total credits required for the award of this degree:

- CTP 114 - Python for Everyone 2 *credit hours*
- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 *credit hours*
- CTP 130 - Programming in PHP/MySQL 3 *credit hours*
- CTS 170 - Digital Forensics 1 3 *credit hours*
- CTS 216 - Network Forensics 4 *credit hours*
- CTS 222 - UNIX/LINUX System Administration 4 *credit hours*
- CTS 236 - Virtualization & Cloud 4 *credit hours*
- STM 213 - Professional Skills for STEM 1 *credit hour*

Digital Forensics Area of Concentration Requirements: 23 credits

Degree Awarded: Information Assurance and Cybersecurity - Digital Forensics Concentration (AAS.CIS.DIGITAL-FRSC). Students must complete all of these courses with a grade of C or better.

- CJS 111 - Introduction to Criminal Justice 3 *credit hours*
- CTS 170 - Digital Forensics 1 3 *credit hours*
- CTS 207 - Digital Forensics 2 4 *credit hours*
- CTS 209 - Digital Forensics 3 4 *credit hours*
- CTS 242 - Network Intrusion Detection and Penetration Testing 4 *credit hours*

Digital Forensics Area of Concentration Electives 5 *credit hours*

Must choose 5 credit hours from the following list to achieve the 61 total credits required for the award of this degree.

- CTS 216 - Network Forensics 4 *credit hours*
- CTS 236 - Virtualization & Cloud 4 *credit hours*
- CTS 240 - Advanced Network Defense 4 *credit hours*
- STM 213 - Professional Skills for STEM 1 *credit hour*

Networking Area of Concentration Requirements: 23 credits

Degree Awarded: Information Assurance and Cybersecurity - Networking Concentration (AAS.CIS.NETWORK). Students must complete all of these courses with a grade of C or better.

- CTP 114 - Python for Everyone 2 *credit hours*
- CTS 130 - Networking 1 4 *credit hours*
- CTS 131 - Networking 2 4 *credit hours*
- CTS 230 - Networking 3 4 *credit hours*
- CTS 233 - Network Programming 4 *credit hours*

Networking Area of Concentration Electives 5 *credit hours*

Must choose 5 credit hours from the following list to achieve the 61 total credits required for the award of this degree.

- CTS 170 - Digital Forensics 1 3 *credit hours*
- CTS 216 - Network Forensics 4 *credit hours*
- CTS 222 - UNIX/LINUX System Administration 4 *credit hours*
- CTS 236 - Virtualization & Cloud 4 *credit hours*
- STM 213 - Professional Skills for STEM 1 *credit hour*

Diversity Requirement

Students may satisfy the diversity requirement simultaneously as they satisfy the Social and Behavioral Sciences general education requirement. Refer to Diversity Requirement for a list of approved courses.

Technology Requirement

Satisfied by CTS 107.

Wellness Requirement

Satisfied by BIO 135. If you have already satisfied the Biological and Physical Sciences General Education Requirement, you may elect to take any Wellness Requirement course. Refer to Wellness Requirement Courses (General Education) for a list of approved courses.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of the Information Assurance and Cybersecurity Associate of Applied Science degree, students will be able to:

1. Analyze a broadly-defined security problem and apply principles of cybersecurity to the design and implementation of solutions.
2. Apply security principles and practices to maintain operations in the presence of risks and threats.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in cybersecurity practice based on legal and ethical principles.
5. Function effectively as a member of a team engaged in cybersecurity activities.

Additionally, upon successful completion of the Digital Forensics Area of Concentration, students will also be able to:

1. Plan and perform digital forensic investigations including preservation, handling, analysis, and documentation of evidence.
2. Use industry standard tools to access digital evidence and conduct forensic analysis.
3. Relate the functionality of operating systems and networks to digital evidence.
4. Explain the characteristics of computer crime offenses and offenders.
5. Apply Constitutional and case law to digital forensics investigations.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Network Security (certificate)
- Cisco Certified Network Associate (CCNA) Preparation (certificate)
- Advanced Network Security (certificate)
- Digital Forensics (certificate)
- Server Administration and Security (certificate)
- Advanced Digital Forensics (certificate)
- Computer Network Management - UNIX/LINUX System Administrator (certificate)
- Cyber Technology (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Information Technology Service Management (certificate)

Official Title of Certificate: Information Technology Service Management, Certificate

Award: Certificate

Code: CRT.CIS.INFO-TECH

Total Credit Hours: 18

Visit www.aacc.edu to learn more about the Department of Computer Information Systems

Purpose: IT service management (ITSM) describes the strategic approach to design, deliver, manage and improve the way businesses use information technology. ITSM supports a service throughout its lifecycle, from service management to change management, problem and incident management, asset management, and knowledge management.

A grade of C or better is required in each Information Systems Management Technology Transfer course requirement.

Range of Occupations

- IT Operations Manager
- IT Service Management Specialist
- Manager, IT Service Management

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18 credits

A grade of C or better is required in each Information Systems Management Technology Transfer course requirement.

- CTA 105 - Theory and Troubleshooting Microcomputers 1 3 *credit hours*
- CTA 108 - Service Management Foundation 3 *credit hours*
- CTA 120 - Help Desk Concepts 3 *credit hours*
- CTA 205 - Theory and Troubleshooting Microcomputers 2 3 *credit hours*
- CTA 208 - Advanced Service Management 3 *credit hours*
- CTA 215 - Management Information Systems 3 *credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Examine the processes, tools and technologies for systems management and customer service
- Apply information service management concepts to improve their organization
- Support the delivery of service management integration within an information systems environment.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Intelligence Analytics (certificate)

Official Title of Certificate: Intelligence Analytics, Certificate

Award: Certificate

Code: CRT.HLS.INTEL-ANYL

Total Credit Hours: 15

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

Purpose: This program is designed to provide students with a critical understanding of the complex nature of the intelligence community and its role in supporting U.S. national security. The intended audience is students who wish to explore a future career in the intelligence community; current intelligence community employees desiring to advance their career in the intelligence community; and companies and firms who wish to advance employees' skills in the field of analytics.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 15 credits

- HLS 111 - Introduction to Homeland Security *3 credit hours*
- HLS 211 - Intelligence Analysis and Security Management *3 credit hours*
OR
- HLS 220 - Intelligence and U.S. National Security *3 credit hours*
HLS 220 has prerequisite of eligibility for ENG 101/ENG 101A and PLS 111 or HIS 212 or permission of Institute director.
- HLS 225 - Introduction to Intelligence Analytics *3 credit hours*
- HLS 230 - Intelligence Support to the Policy Maker and Military *3 credit hours*
- HLS 240 - National Security Challenges of the 21st Century *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Differentiate ethical and unethical actions regarding homeland security practices.
2. Identify ethnic, cultural, national, religious, and political ideologies as it relates to homeland security.
3. Examine and interpret homeland security and intelligence evidence.
4. Demonstrate effective problem solving in the field of homeland security.
5. Communicate clear, concise and accurate reports as it relates to homeland security and intelligence.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Homeland Security Management - Intelligence Analytics (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Juvenile Justice (A.A.S.)

Official Title of Major: Juvenile Justice, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.CJS.JUV-JUST

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

This degree is part of the Homeland Security and Criminal Justice Institute.

Purpose: Produces qualified practitioners with thorough knowledge and skills to assess, treat and manage children and youth offenders in both the juvenile and adult criminal justice systems. Students compare and contrast historical and current day philosophies of the juvenile justice system, to include social and psychological causations to delinquency and crime. Students study the legal and therapeutic distinctions between children and adults regarding legal representation and protection, due process of law, custody, sentencing, residential and at-home placements, treatment, education and community reintegration.

Additional Degree Requirements

Students are expected to participate with their advisor in tailoring a mix of electives that will satisfy their own needs with respect to immediate and long-term employment.

Range of Occupations

- Case manager I, II or III
- Juvenile counselor
- Law enforcement
- Correctional officer
- Community and family advocacy
- Social services
- Parole and probation
- Juvenile and family counseling

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101 -ENG 102 or ENG 101 -ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

See General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PSY 111 - Introduction to Psychology 3 *credit hours*

Additional General Education requirements: 6 credits

- **Technology Requirement** 3 *credit hours*
CTP 103 recommended. This requirement may also be satisfied by CLEP exam.
- **Wellness Requirement** 3 *credit hours*
See General Education Wellness Requirements for a list of approved courses.

Program Requirements: 36 credits

- CJS 111 - Introduction to Criminal Justice 3 *credit hours*
- CJS 113 - Penology 3 *credit hours* **OR**
- SOC 224 - Criminology 3 *credit hours*
- CJS 225 - Criminal Justice Ethics 3 *credit hours*
- CJS 228 - Practices in Social Work and Counseling with Inmate Populations 3 *credit hours*
- CJS 231 - Juvenile Justice 3 *credit hours*
- CJS 232 - Juvenile Law 3 *credit hours*

- CJS 233 - Forensic Psychology and Victimology 3 credit hours **OR**
- EDU 111 - Foundations of Education 3 credit hours
- HUS 102 - Physiological Aspects of Chemical Dependence 3 credit hours
- PSY 205 - Child Psychology 3 credit hours **OR**
- PSY 211 - Developmental Psychology 3 credit hours
- SOC 122 - Social Problems 3 credit hours
- SOC 132 - Juvenile Delinquency 3 credit hours
- Elective (consult with an advisor) 3 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze pertinent issues regarding juvenile justice.
2. Compare and contrast law governing adult and juvenile offenders.
3. Perform valid and reliable research.
4. Exhibit comprehension of juvenile justice purpose/operations.
5. Analyze emerging trends in juvenile justice.
6. Observe punishment policies regarding juvenile offending.
7. Outline legal influences and public policy on children's lives.
8. Implement effective steps for case management.
9. Properly select and correctly use valid research sources.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Kinesiology (A.S.)

Official Title of Major: Kinesiology, A.S.

Award: Associate of Science degree, A.S.

Code: AS.HEA.KINESIOLOGY

Total Credit Hours: A minimum of 60

Visit www.aacc.edu to learn more about the Department of Health, Fitness, and Exercise Studies

Purpose: This program is for students to pursue career options in the health fitness industry including commercial/corporate fitness, personal training, kinesiology, sports medicine, sports conditioning, sport management, health promotion and recreation and parks. Students may transfer to a four-year institution in exercise science, kinesiology, sport management, sports medicine, health promotion, human performance, physical education and recreational fitness.

Range of Occupations

- Personal trainer
- Fitness specialist for corporate/commercial, private, or municipal and community recreation
- Health coach
- Health promotions coordinator
- Sport management
- Strength and conditioning coach
- Fitness club/studio management
- Physical education
- Recreation and parks

Additional Program Requirements

Students must earn a grade of C or better in all program requirements. Consult with an academic advisor to ensure the most effective choice of courses to prepare for transferring to a four-year institution. Elective credits must be chosen with the approval of the academic chair or faculty adviser.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 35 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*

- ENG 102 - Academic Writing and Research 2 3 credit hours
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

Select one course from COM and select one course from a different Arts and Humanities.

Biological and Physical Sciences: 8 credits

- BIO 101 - Foundations of Biology: Molecules and Cells 4 credit hours
- BIO 233 - Anatomy and Physiology 1 4 credit hours

Mathematics: 3 credits

(Must choose a general education mathematics course. See General Education Mathematics Requirements for a list of approved courses. Transfer students should consult with an academic advisor or with their transfer school before choosing a math course.)

Social and Behavioral Sciences: 6 credits

Select PSY 111 and one SOC from SOC 111, 105 or 150.

- PSY 111 - Introduction to Psychology 3 credit hours
AND
- SOC 111 - Introduction to Sociology 3 credit hours
OR
- SOC 105 - Exploring the Future 3 credit hours
OR
- SOC 150 - Introduction to Aging Studies 3 credit hours

Additional General Education Requirements: 6 credits

- HEA 100 - Assessment and Theory of Fitness and Health 3 credit hours

This course meets the General Education Wellness Requirement.

- **Technology Requirement** 3 credit hours

See General Education Technology Requirements for list of approved courses.

Program Requirements: 25 credits

- BIO 234 - Anatomy and Physiology 2 4 credit hours
- HEA 101 - Foundations of Health, Exercise and Sport 3 credit hours
- HEA 111 - Personal and Community Health 3 credit hours
- HEA 295 - Care and Prevention of Athletic Injuries 3 credit hours
- HEA 230 - Personal Trainer Fundamentals 4 credit hours

Program Electives (consult with an advisor): 8 credits

Must be chosen from the following (due to a variety of transfer requirements at four-year schools, students should consult with an academic advisor or with their transfer school before choosing their electives):

- HEA 113 - Women's Health 3 *credit hours* **OR**
- GSS 113 - Women's Health 3 *credit hours*
- HEA 117 - Healthy Aging For Women 3 *credit hours* **OR**
- GSS 117 - Healthy Aging for Women 3 *credit hours*
- HEA 137 - Weight Management: Utilizing Healthy Approaches to Diet and Physical Activity 1 *credit hour* **OR**
- BIO 137 - Weight Management: Utilizing Healthy Approaches to Diet and Physical Activity 1 *credit hour*
- HEA 138 - Nutrition for Fitness and Sport 1 *credit hour* **OR**
- BIO 138 - Nutrition for Fitness and Sport 1 *credit hour*
- HEA 231 - Health Coach 3 *credit hours*
- BIO 135 - Principles of Nutrition 3 *credit hours*
- SPT 123 - Sports in America 3 *credit hours*
- SPT 232 - Sport Psychology 3 *credit hours*
- ESI 103 - Introduction to Entrepreneurship 3 *credit hours*
- HEA 150 - Advanced First Aid, CPR and AED 3 *credit hours*
- PBH 101 - Introduction to Public Health 3 *credit hours*
- PHE 215 - Cardio Fitness 1 *credit hour*
- PHE 233 - Weight Training 1 *credit hour*
- PHE 234 - Hatha Yoga 1 *credit hour*

Diversity Requirement

Satisfied by SOC 111 or SOC 105 or SOC 150.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Satisfied by HEA 100.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Design and instruct individualized exercise programs for healthy adults and special populations.
2. Apply current technology in the health, fitness and exercise industry.
3. Identify and apply aspects of diversity as they relate to health and wellness.
4. Identify and critique health-related lifestyle behaviors including national fitness and nutritional guidelines, as they relate to the dimensions of wellness.
5. Apply legal and ethical issues and professional responsibilities within their scope of practice.
6. Demonstrate basic injury prevention techniques.
7. Identify how the skeletal and neuromuscular structures of the human body adapt and contribute to human performance.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Law and Jurisprudence (A.A.)

Official Title of Major: Law and Jurisprudence, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.LGS.JURIS-TRANS

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Legal Studies Institute

Purpose: This transfer program provides a law and liberal arts foundation for those students transferring to four-year colleges and universities to pursue a bachelor's degree in jurisprudence and, ultimately, attend law school. Prospective lawyers should develop proficiency in writing, speaking, reading, researching, analyzing and thinking logically. A multidisciplinary background is critical; therefore, this program provides a core of courses considered essential to the pre-law/jurisprudence student.

Range of Occupations

The skills and knowledge acquired in this program can be applied to a variety of occupations, including: lawyer, law clerk, paralegal, legal assistant, mediator, arbitrator, title examiner, abstractor, judge, magistrate and other judicial workers.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 31 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- COM 111 - Fundamentals of Oral Communication 3 *credit hours* **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours* **OR**
- LGS 271 - Civil Rights Law 3 *credit hours* **AND**
- PHL 141 - Introduction to Logic 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

- MAT 133 - Finite Mathematics 3 *credit hours* **OR**
- MAT 135 - Statistics 3 *credit hours*

Social and Behavioral Sciences: 6 credits

- SOC 111 - Introduction to Sociology 3 *credit hours* **OR**
- LGS 217 - Constitutional Law 3 *credit hours* **AND**
- HIS 211 - United States History through the Civil War 3 *credit hours*

Additional General Education Requirements: 3 credits

- **Wellness Requirement** 3 *credit hours*
Refer to General Education Wellness Requirement for a list of approved courses.

Program Requirements: 29 credits

- HIS 212 - United States History Since the Civil War 3 *credit hours*
- LGS 111 - Introduction to Paralegal Studies 3 *credit hours*
- LGS 112 - Law Office Practice and Technology 3 *credit hours*
- LGS 141 - Electronic Legal Research 1 *credit hour*
- LGS 143 - Legal Research and Writing 1 3 *credit hours*
- LGS 144 - Legal Research and Writing 2 3 *credit hours*
- LGS 210 - Legal Ethics 3 *credit hours*
- LGS 217 - Constitutional Law 3 *credit hours*
Students who elect to take LGS 217 as a general education elective should choose an additional elective below in order to meet the 60 credits required for graduation.
- PHL 142 - Ethics 3 *credit hours*
Electives: 4 *credit hours*; *List of suggested electives below and students may choose a one-credit general elective in order to achieve the 60 credits needed for graduation.*
- ECO 121 - Introduction to Economics 3 *credit hours*
- HIS 227 - History of Medieval and Renaissance England 3 *credit hours*
- LGS 215 - Criminal Law 3 *credit hours*
- LGS 253 - Business Law 1 3 *credit hours*
- LGS 271 - Civil Rights Law 3 *credit hours*
Students may choose LGS 271 if not taken to satisfy an Arts and Humanities general education requirement.
- PLS 111 - American Government 3 *credit hours*

- PLS 113 - State and Local Government 3 *credit hours*

Diversity Requirement

Satisfied by LGS 271 or SOC 111.

Technology Requirement

Satisfied by LGS 112.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Explain basic legal concepts, issues, and terminology in subject matter areas that are essential to the practice of law.
2. Apply critical thinking skills to identify, analyze, and interpret legal and factual issues and effectively interface with clients and attorneys.
3. Demonstrate effective legal research, writing, and oral communication skills.
4. Apply general principles of ethical and professional responsibility to the role of paralegals and attorneys in the practice of law.
5. Apply practical legal skills and legal theory to assist attorneys in the practice of law.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Law Enforcement and Criminal Justice (certificate)

Official Title of Certificate: Law Enforcement and Criminal Justice, Certificate

Award: Certificate

Code: CRT.LEN.LEN

Total Credit Hours: 18

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

Purpose: For students who are either preparing for or are currently employed in the field of criminal justice. The required courses are appropriate for all students of criminal justice. Elective courses allow students to specialize in a particular area of criminal justice, depending on their interests and career goals. The fields of specialization include police administration or law enforcement and corrections or juvenile services. Students may pursue the certificate option on a full- or part-time basis in either a day or evening schedule.

Range of Occupations

- Police officer, agent or cadet

- Police technician or laboratory assistant
- Prison, jail or detention facility officer
- Private security officer or private investigator
- Probation officer or juvenile services officer
- Sheriff's deputy or investigator

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18 credits

- CJS 111 - Introduction to Criminal Justice *3 credit hours*
- CJS 113 - Penology *3 credit hours*
- LGS 215 - Criminal Law *3 credit hours*
(formerly listed as CJS 215)
- HLS 111 - Introduction to Homeland Security *3 credit hours* **OR**
- CJS 260 - Terrorism/Counterterrorism *3 credit hours*

Elective (CJS or HLS) 3 credit hours

Elective (CJS or HLS or social science) 3 credit hours

Note: Social science elective must be selected from PSY 111, SOC 111, SOC 132 or SOC 224.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply critical thinking and analytical skills in a crime enforcement and public safety context.
2. Conduct qualitative and quantitative research.
3. Analyze, differentiate, and interpret varying data.
4. Articulate concepts and theories of criminology, sociology, psychology as they pertain to the criminal justice system.
5. Gather, analyze, preserve, and interpret information, artifacts and evidence.
6. Apply the law in crime enforcement and public safety contexts.
7. Describe the critical phases of the criminal justice system.
8. Recall the U.S. Constitution Bill of Rights.
9. Identify diversity and human rights issues pertaining to criminal justice.
10. Articulate ethical and professional standards of conduct and performance as they pertain to criminal justice.
11. Communicate verbally and in writing in law enforcement and criminal justice contexts.
12. Use technology to gather, compose, appraise and apply information.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Law Enforcement and Criminal Justice - Law Enforcement and Criminal Justice (A.A.S.)

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Law Enforcement and Criminal Justice - Law Enforcement and Criminal Justice (A.A.S.)

Official Title of Major: Law Enforcement and Criminal Justice, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Total Credit Hours: 60

Code: AAS.LEN.LEN

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

This degree is part of the Homeland Security and Criminal Justice Institute.

Purpose: Provides students with the opportunity to develop the basic theoretical and technical skills needed for an entry-level position into various areas of the criminal justice profession. Enhances the opportunities of in-service police officer students for promotion to higher levels of supervision and responsibility. Provides a transfer basis for students who are seeking entry into police and criminal justice agencies having a four-year degree requirement.

Additional Program Requirements

Students who have career interests in a particular criminal justice agency, especially federal agencies, should consult with one of the criminal justice faculty to plan a program which is transferable to a four-year institution.

Range of Occupations

- Correctional officer
- Federal law enforcement officer
- Investigative assistant
- Jail or detention facility officer
- Juvenile services officer
- Police dispatcher
- Police officer or cadet
- Private investigator
- Retail store security officer
- School resource officer
- Victim rights advocate

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101 -ENG 102 or ENG 101A -ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

See General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

See General Education Biological and Physical Sciences Requirement for a list of approved courses.

Mathematics: 3 credits

Students planning to transfer to the University of Baltimore should select MAT 135. See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PLS 111 - American Government 3 *credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 *credit hours*
CTP 103 is recommended. This requirement may also be satisfied by CLEP exam. See General Education Technology Requirement for list of additional approved courses.
- **Wellness Requirement** 3 *credit hours*
Choose one course from list below:
 - HEA 150 - Advanced First Aid, CPR and AED
 - EMT 104 - Emergency Medical Care, CPR & AED

Program Requirements: 15 credits

- CJS 111 - Introduction to Criminal Justice 3 *credit hours*
- CJS 113 - Penology 3 *credit hours*
- CJS 225 - Criminal Justice Ethics 3 *credit hours*
- LGS 215 - Criminal Law 3 *credit hours*
(formerly listed as CJS 215)
- SOC 111 - Introduction to Sociology 3 *credit hours*

Area of Concentration Requirements: 21 credits

- CJS 112 - Police Operations 3 *credit hours*
- CJS 222 - Investigation and Criminalistics 4 *credit hours*
- CJS 121 - Police Administration 3 *credit hours*

- CJS 260 - Terrorism/Counterterrorism 3 credit hours
OR
- HLS 111 - Introduction to Homeland Security 3 credit hours

Elective (criminal justice or social science: CJS, PSY or SOC) 3 credit hours

Elective (criminal justice or consult with an advisor) 5 credit hours

Diversity Requirement

Satisfied by SOC 111 requirement.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply analytical and critical thinking skills in a law enforcement context.
2. Conduct qualitative and quantitative research related to criminal justice and law enforcement.
3. Analyze, differentiate, and interpret varying data.
4. Articulate concepts and theories of criminology, sociology, psychology as they pertain to the criminal justice system.
5. Gather, analyze, preserve, and interpret information, artifacts and evidence.
6. Apply the law properly in contexts related to criminal justice and public safety.
7. Describe the critical phases of the criminal justice system.
8. Recall and apply the U.S. Constitution Bill of Rights to investigations and cases.
9. Identify diversity and human rights issues pertaining to criminal justice.
10. Articulate ethical and professional standards of conduct and performance.
11. Communicate effectively both verbally and in writing in law enforcement situations.
12. Use technology to gather, compose, appraise and apply information.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Law Enforcement and Criminal Justice - Police Academy (A.A.S.)
- Law Enforcement and Criminal Justice - Social Justice (A.A.S.)
- Law Enforcement and Criminal Justice (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Law Enforcement and Criminal Justice - Police Academy (A.A.S.)

Official Title of Major: Law Enforcement and Criminal Justice - Police Academy, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.LEN.POLICE.ACAD

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

This degree is part of the Homeland Security and Criminal Justice Institute.

Purpose: Provides students with the opportunity to develop the basic theoretical and technical skills needed for an entry-level position into various areas of the criminal justice profession. Enhances the opportunities of in-service police officer students for promotion to higher levels of supervision and responsibility. Provides a transfer basis for students who are seeking entry into police and criminal justice agencies having a four-year degree requirement.

Additional Program Requirements

Students who have career interests in a particular criminal justice agency, especially federal agencies, should consult with one of the criminal justice faculty to plan a program which is transferable to a four-year institution. In addition, students enrolled in the Police Academy Option must meet specific admission requirements needed for police certification. Most police departments have specific requirements as to health, character and vision for entry-level employment. Students must determine if they meet these requirements before they enter the Law Enforcement and Criminal Justice degree program.

Range of Occupations

- Correctional officer
- Federal law enforcement officer
- Jail or detention facility officer
- Juvenile services officer
- Police officer or cadet
- Private investigator
- Retail store security officer

Entrance/Admission Requirements

Entrance Requirements

Students must meet with the program coordinator for advisement and eligibility approval before enrolling in the police academy. Please call **410-777-7319** or **410-777-7063** or email dmhammel@aacc.edu to set up a meeting. The police academy segment of the degree program begins in the summer semester of every year with an orientation course, and ends May 31 in the following year. Students must be 21 years of age by May 31 to enroll in the police academy segment of the degree program.

Criminal Background Check

Participating in this program requires the satisfactory completion of a criminal background check.

Academic and Integrity Standards

The police academy segment of the degree program reflects entrance-level training objectives, mandated by the Maryland Police Training Commission (MPTC), the Director of the Academy and by Anne Arundel Community College. Students are required to complete academy examinations with a score of 75 percent or better on each exam. Students may not fail any course within the police

academy segment of the degree program and must complete the police academy segment of the degree program with an overall GPA of 2.0 or better. Students are strongly encouraged to maintain at least the same GPA for all other non-academy courses in the degree program. Students must be eligible to take ENG 101 or ENG 101A by the end of the police academy segment of the degree program. While enrolled in the police academy segment of the degree program, students are required to maintain the highest ethical, academic and professional standards - during and outside of scheduled classes. Failure to adhere to these and other standards established by the Academy Director, the college and/or by the MPTC, will lead to academy dismissal.

Following successful completion of the police academy segment of the degree program, the student will receive a certificate from the Maryland Police Training Commission, documenting successful completion of the mandated police entry-level curriculum in all areas except firearms training. Graduates hired as police officers within two years may be eligible for a waiver of certain entrance-level training requirements to become a certified police officer.

Degree Requirements

Students are required to complete criminal background checks. Students are also required to obtain medical waivers that qualify the student's fitness to perform various physical activities throughout the police academy segment of the degree program. The police academy segment of the degree program is a 10-month program, approved by the Maryland Police Training Commission. Students must be able to adhere to a full-time course schedule set by the Director of the Police Academy. Students are required to purchase and wear authorized uniforms; attend meetings; physical and academic trainings; examinations; and other workshops outside of regularly scheduled classes. Students also are required to complete an off campus training in Emergency Vehicle Operations in Sykesville, Md.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101 -ENG 102 or ENG 101A -ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

See General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

See General Education Biological and Physical Sciences Requirement for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PLS 111 - American Government 3 credit hours

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 credit hours
CTP 103 recommended. Students may also satisfy this requirement by CLEP exam. See General Education Technology Requirement for list of additional approved courses.
- **Wellness Requirement** 3 credit hours
Choose one course from the list below:
 - HEA 150 - Advanced First Aid, CPR and AED
 - EMT 104 - Emergency Medical Care, CPR & AED

Program Requirements: 15 credits

- CJS 111 - Introduction to Criminal Justice 3 credit hours
- CJS 113 - Penology 3 credit hours
- CJS 225 - Criminal Justice Ethics 3 credit hours
- LGS 215 - Criminal Law 3 credit hours
(formerly listed as CJS 215)
- SOC 111 - Introduction to Sociology 3 credit hours

Area of Concentration Requirements: 21 credits

- CJS 109 - Police Discipline and Organization 1 credit hour
- CJS 112 - Police Operations 3 credit hours
- CJS 218 - Criminal Justice Communications 3 credit hours
- CJS 222 - Investigation and Criminalistics 4 credit hours
- LGS 216 - Criminal Evidence and Procedure 3 credit hours
(formerly listed as CJS 216)
- CJS 226 - Traffic and Public Safety 3 credit hours
- **Elective (consult with an advisor)** 4 credit hours

Diversity Requirement

Satisfied by SOC 111 requirement.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Master the Maryland Police Training Commission objectives.
2. Apply analytical and critical thinking skills in a law enforcement context.
3. Conduct qualitative/quantitative research related to criminal justice.
4. Analyze, differentiate, and interpret varying data.
5. Articulate concepts/theories of criminology, sociology, psychology.
6. Apply the law properly to investigations and cases.
7. Describe the critical phases of the criminal justice system.
8. Recall and apply the U.S. Constitution to investigations and cases.
9. Identify diversity and human rights issues pertaining to criminal justice.
10. Articulate ethical and professional standards of conduct.
11. Use technology to gather, compose, appraise and apply information.
12. Describe the interdependency between criminal justice components.
13. Outline key constitutional/statutory/case laws.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Law Enforcement and Criminal Justice - Law Enforcement and Criminal Justice (A.A.S.)
- Law Enforcement and Criminal Justice - Social Justice (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Law Enforcement and Criminal Justice - Police Academy (certificate)

Official Title of Certificate: Law Enforcement and Criminal Justice - Police Academy, Certificate

Award: Certificate

Code: CRT.LEN.POLICE-ACAD

Total Credit Hours: 45

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

Range of Occupations

Maryland local law enforcement; various federal security and law enforcement; various business sector security professions; adult and juvenile correctional occupations; court security jobs.

Academic and Integrity Standards

Anne Arundel Community College's Police Academy is certified by the Maryland Police Training Commission. With the exception of Firearms training, graduates must meet the minimal regulation, standard instruction, and testing requirements mandated by the Commission, as well as others required by the Director of the Academy and by Anne Arundel Community College. The Academy is a full-time program, requiring students to begin with an orientation course, generally offered in the summer, and additional courses in the subsequent fall, winter, and spring semesters. Students may not fail any police academy course and must complete the police

academy with an overall GPA of 2.0 or better. Students must be eligible to take ENG 101 or ENG 101A by the end of their academy training. Before graduating, students must comply with all financial, academic, ethical, and conduct-related policies established by the MPTC, the Institute for Homeland Security and Criminal Justice, and AACC. Within 2 years from completing the academy, students are eligible for immediate hire by any local law enforcement agency in the state of Maryland.

Additional Degree Requirements

To gain admittance into the police academy, students must first enroll in the college, take a college placement test (if required), and interview with a Police Academy Advisor. Once found eligible, the Academy Advisor will issue a Letter of Eligibility to the student. The Letter of Eligibility must be presented to Records and Registration before enrolling in the Police Academy Orientation course. Students will also be required to complete criminal and motor vehicle background checks; and a physical fitness examination. Students must be 21 years of age at the time of graduating from the academy. Students must be able to adhere to a rigorous, full-time course schedule set in advance by the Director of the Police Academy. Students must be willing to adhere to a para-military command structure. Students are required to purchase and wear authorized uniforms; attend academy meetings; successfully complete course assignments, assessments, and academy comprehensive examinations; and public service projects. Students will attend off-campus training such as an Emergency Vehicle Operations course and Standardized Field Sobriety Test Training. Many of our Recruit Officers remain employed, serve in the National Guard, or meet their obligations as parents, caregivers and business owners while attending the academy.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Entrance/Admission Requirements

Entrance Requirements

Students must meet with the program coordinator for advisement and eligibility approval before enrolling in the police academy. Please call **410-777-7319** or **410-777-7063**; or email dmhammel@aacc.edu to set up a meeting. The police academy begins in the summer semester of every year with an orientation course, and ends May 31 in the following year. Students must be 21 years of age by May 31 to enroll in the police academy.

Criminal Background Check

Participating in this program requires the satisfactory completion of a criminal background check.

Certificate Requirements: 45 credits

Summer Term

- CJS 109 - Police Discipline and Organization 1 *credit hour*

Fall Term

- CJS 111 - Introduction to Criminal Justice 3 *credit hours*
- CJS 226 - Traffic and Public Safety 3 *credit hours*

- CJS 214 - Physical Conditioning for Law Enforcement and Firefighter/Rescue Service Personnel *1 credit hour*
- LGS 215 - Criminal Law *3 credit hours*
(formerly listed as CJS 215)
- LGS 216 - Criminal Evidence and Procedure *3 credit hours*
(formerly listed as CJS 216)

Winter Term

- CJS 127 - Police Tactics 1 *5 credit hours*
- CJS 128 - Police Tactics 2 *5 credit hours*
- CJS 219 - Advanced Patrol Operations *3 credit hours*

Spring Term

- CJS 112 - Police Operations *3 credit hours*
- CJS 218 - Criminal Justice Communications *3 credit hours*
- CJS 220 - Emergency Vehicle Operations Course (EVOC) *2 credit hours*
Emergency Vehicle Operations is scheduled and coordinated through the Police Academy Program Coordinator.
- CJS 222 - Investigation and Criminalistics *4 credit hours*
- CJS 225 - Criminal Justice Ethics *3 credit hours*
- EMT 104 - Emergency Medical Care, CPR & AED *3 credit hours*
- OR**
- HEA 150 - Advanced First Aid, CPR and AED *3 credit hours*
Students who are graduates of recognized police academies, current employees with fire departments, or current employees with EMT/emergency response agencies may request to have HEA 150 or EMT 104 waived. To do so, students should provide to the Records and Registration office an official (department letterhead) letter stating that they are graduates or employees of one of the above agencies. Courses or training that is not approved by a commission on higher education approved by the United States Department of Education will not be accepted for transfer credit or as meeting the waiver. A minimum of 45 credits must be completed to earn this certificate.

Program Outcomes

Upon successful completion of this program, academy students will be in full compliance with:

- The Maryland Police Training Commission's regulations and standards.
- The American Red Cross Association's First Responders Training standards.
- Maryland Police Emergency Vehicle Operations Course.
- ASP Baton Training regulations.
- NHTSA's DWI Detection and Standardized Field Sobriety Testing regulations.

Upon successful completion of this program, academy students will be able to:

- Apply critical thinking skills in law enforcement and public safety contexts.
- Conduct qualitative and quantitative research.
- Analyze, differentiate, and interpret varying data.
- Articulate concepts and theories of criminology, sociology, psychology as they pertain to the criminal justice system.
- Correctly gather, analyze, preserve, and interpret information, artifacts and evidence.
- Apply relevant law in police and public safety contexts.
- Describe the critical phases of the criminal justice system.
- Recall the U.S. Constitution Bill of Rights.
- Properly identify diversity and human rights issues pertaining to criminal justice.
- Articulate ethical and professional standards of conduct and performance pertaining to criminal justice.
- Communicate verbally and in writing in crime enforcement and public safety-related contexts.

- Use electronic communication devices appropriately.
- Correctly use technology to gather, compose, appraise and apply information.
- Demonstrate tactical skills in defensive training, employing chemical agents, making suspect arrests, maintaining street survival, operational communications, etc...
- Document and describe scientific processes.
- Use scientific methods to solve problems.
- Practice sound laboratory skills, meeting scientific standards of precision and care.
- Describe the criminal justice system and the rules of evidence.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Law Enforcement and Criminal Justice - Social Justice (A.A.S.)

Official Title of Major: Law Enforcement and Criminal Justice - Social Justice, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Total Credit Hours: 60

Code: AAS.LEN.SOCIAL-JUST

Visit www.aacc.edu to learn more about the Homeland Security and Criminal Justice Institute

This degree is part of the Homeland Security and Criminal Justice Institute.

Purpose: Provides students with the opportunity to develop the basic theoretical and technical skills needed for an entry-level position into various areas of the criminal justice profession. Provides a transfer basis for students who are seeking entry into police and criminal justice agencies having a four-year degree requirement.

Additional Program Requirements

Students who have career interests in a particular criminal justice agency, especially federal agencies, should consult with one of the criminal justice faculty to plan a program which is transferable to a four-year institution.

Range of Occupations

- Correctional officer
- Jail or detention facility officer
- Juvenile justice counselor
- Juvenile services officer
- Police officer or cadet
- Rehabilitation counseling
- Retail store security officer
- School resource officer
- Victim rights advocate

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 24 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

See General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

- PLS 111 - American Government 3 *credit hours*

Additional General Education Requirements: 6 credits

- **Technology Requirement** 3 *credit hours*
CTP 103 is recommended. This requirement may also be satisfied by CLEP exam. See General Education Technology Requirement for list of additional approved courses.
- **Wellness Requirement** 3 *credit hours*
Choose one course from the list below:
 - HEA 150 - Advanced First Aid, CPR and AED
 - EMT 104 - Emergency Medical Care, CPR & AED

Program Requirements: 15 credits

- CJS 111 - Introduction to Criminal Justice 3 *credit hours*
- CJS 113 - Penology 3 *credit hours*
- CJS 225 - Criminal Justice Ethics 3 *credit hours*
- LGS 215 - Criminal Law 3 *credit hours*
(formerly listed as CJS 215)
- SOC 111 - Introduction to Sociology 3 *credit hours*

Area of Concentration Requirements: 21 credits

- BPA 162 - Business Communications 3 credit hours
- CJS 228 - Practices in Social Work and Counseling with Inmate Populations 3 credit hours
- CJS 260 - Terrorism/Counterterrorism 3 credit hours **OR**
- HLS 111 - Introduction to Homeland Security 3 credit hours
- HUS 100 - Introduction to Human Services 3 credit hours
- PSY 111 - Introduction to Psychology 3 credit hours
- Elective (criminal justice) 3 credit hours
- Elective (consult with an advisor) 3 credit hours

Diversity Requirement

Satisfied by SOC 111 requirement.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Fast Track Option

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply analytical and critical thinking skills in a law enforcement context.
2. Conduct qualitative and quantitative research related to criminal justice and law enforcement.
3. Analyze, differentiate, and interpret varying data.
4. Articulate concepts and theories of criminology, sociology, psychology as they pertain to the criminal justice system.
5. Gather, analyze, preserve, and interpret information, artifacts and evidence.
6. Apply the law properly in contexts related to criminal justice and public safety.
7. Describe the critical phases of the criminal justice system.
8. Recall and apply the U.S. Constitution Bill of Rights to investigations and cases.
9. Identify diversity and human rights issues pertaining to criminal justice.
10. Articulate ethical and professional standards of conduct and performance.
11. Communicate effectively both verbally and in writing in law enforcement situations.
12. Use technology to gather, compose, appraise and apply information.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Law Enforcement and Criminal Justice - Law Enforcement and Criminal Justice (A.A.S.)
- Law Enforcement and Criminal Justice - Police Academy (A.A.S.)

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Life and Engagement Coach (certificate)

Official Title of Certificate: Life and Engagement Coach Certificate

Award: Certificate

Code: CRT.EDU.LIFE-ENGAGE

Total Credit Hours: 12

Visit www.aacc.edu to learn more about the Teacher Education and Child Care Institute

Purpose: Participants will be trained in the International Coach Federation (ICF) core competencies, which leads to enhanced communication skills, more effective relationships, greater work productivity, and life fulfillment. For participants interested in becoming a certified coach, this certificate fulfills the curriculum requirement for the ACTP (Accredited Coach Training Program) pathway through the International Coach Federation.

Range of Occupations

- Life coach
- Executive/leadership coach

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 12 credits

- EDU 201 - Engagement Coaching Course I: Engage 3 *credit hours*
- EDU 202 - Engagement Coaching Course II: Expand 3 *credit hours*
- EDU 203 - Engagement Coaching Course III: Experience 3 *credit hours* and choose
- EDU 204 - Engagement Coaching Course IV: Integration 3 *credit hours*
- OR
- EDU 205 - Engagement Coaching Course V: Impact 3 *credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to

1. Apply all components of the Engagement Coaching Model to coaching clients and small groups.
2. Demonstrate essential coaching skills
3. Meet the ethical guidelines and professional standards of a coach.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Management Information Systems (certificate)

Official Title of Certificate: Management Information Systems, Certificate

Award: Certificate

Code: Contact Records Office

Total Credit Hours: 16-17

Visit www.aacc.edu to learn more about the Department of Computer Information Systems

Purpose:

Management Information Systems is a critical part of the strategic decision-making process in virtually all of today's public and private organizations. This certificate emphasizes management techniques and methodologies used to ensure the successful implementation and on-going operations of information technology capabilities in business.

A grade of C or better is required in each Management Information Systems Transfer course requirement.

Range of Occupations

- Computer Systems Administrator
- IT Manager
- Information Security Analyst

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 16-17 credits

A grade of C or better is required in each Management Information Systems Transfer course requirement.

- CTA 106 - Introduction to Project Management *3 credit hours*
 - CTP 194 - Ethics and the Information Age *3 credit hours*
 - CTP 200 - Systems Analysis and Design *4 credit hours*
 - CTA 215 - Management Information Systems *3 credit hours*
-
- CTA 100 - Computing and Information Technology *3 credit hours*
OR
 - CTP 103 - Theories and Applications of Digital Technology *3 credit hours*
OR
 - CTS 107 - Cyber Essentials *3 credit hours*
OR
 - CTP 115 - Introductory Object-Oriented Program Analysis and Design *4 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Analyze a problem and design software using procedural and object-oriented methods.
- Explain the complete System Development Lifecycle from planning and problem analysis through implementation and documentation.
- Define MIS project management and articulate the project management framework, including the project management knowledge areas, common tools and techniques, and demonstrate skills in measuring project progress and success.
- Apply an ethical framework to situations involving information systems.
- Support the delivery of MIS within an information systems environment.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Management Information Systems Transfer (A.S.)

Official Title of Major: Management Information Systems Transfer, A.S.

Award: Associate of Science degree, A.S.

Total Credit Hours: 60

Code: AS.CIS.MGT-INFO-SYS

Visit www.aacc.edu to learn more about the Department of Computer Information Systems

Purpose: This transfer program provides a solid foundation in the management of information systems for students who either want to transfer to a four-year university or enter the job market as an entry-level Information Technology Specialist. Students who have already selected a transfer college/university should consult with the Computer Information Systems Academic Chair to plan their program and to keep abreast of program changes and updates to the articulation agreements between Anne Arundel Community College and the transfer institutions.

Additional Degree Requirements

A grade of C or better is required in each Management Information Systems Transfer course requirement.

Related Majors

Students may wish to also review requirements for the similar majors linked below.

- Computer Science Transfer - Information Systems (A.S.)
- Management Information Systems (certificate)

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 34-35 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours
 - ENG 102 - Academic Writing and Research 2 3 credit hours
- ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.*

Arts and Humanities: 6 credits

Two different disciplines required.

CTP 194 is required.

Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 7 credits

At least one laboratory science course required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 6 credits

Refer to General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirements: 6-7 credits

Wellness General Education course 3 credit hours

Refer to General Education Wellness Requirement for list of approved courses.

Technology General Education Requirement 3-4 credit hours. Choose one from the following:

- CTA 100 - Computing and Information Technology 3 credit hours
- CTP 103 - Theories and Applications of Digital Technology 3 credit hours

- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 credit hours
- CTS 107 - Cyber Essentials 3 credit hours

Program Requirements: 25-26 credits

Grade of C or better is required in program requirements

- CTA 105 - Theory and Troubleshooting Microcomputers 1 3 credit hours
- CTA 106 - Introduction to Project Management 3 credit hours
- CTA 108 - Service Management Foundation 3 credit hours
- CTA 120 - Help Desk Concepts 3 credit hours
- CTA 205 - Theory and Troubleshooting Microcomputers 2 3 credit hours
- CTA 208 - Advanced Service Management 3 credit hours
- CTA 215 - Management Information Systems 3 credit hours
- CTP 200 - Systems Analysis and Design 4 credit hours
- Electives 1 credit hour (if needed)
- CTA 114 - Fundamentals of Microsoft Excel 1 credit hour
- OR
- STM 213 - Professional Skills for STEM 1 credit hour

Diversity Requirement

All students in associate degree programs must satisfy the diversity requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement:

Satisfied by CTA 100 or CTP 103 or CTP 115 or CTS 107.

Wellness Requirement

Satisfied by the General Education Wellness Requirement.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply managerial concepts and principles in the development and operation of information systems
2. Apply systems analysis, IS design and project management concepts
3. Analyze technical concepts in information technology
4. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
5. Design, implement and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
6. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Massage Therapy (A.A.S.)

Special Admission Requirements - Rolling Admission

Official Title of Major: Massage Therapy, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.IHE.MASS-THRPY

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Massage Therapy Degree program

Purpose: To provide a new career path for students wishing to practice as a licensed massage therapist.

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Range of Occupations

- Licensed Massage Therapist (LMT)

Additional Program Requirements

Students must receive a minimum final grade of C in all massage therapy courses in order to progress in the sequence of massage courses.

Students enrolled in the massage therapy course sequence are required to comply with the National Certification Board for Therapeutic Massage and Bodywork (NCBTMB) Code of Ethics.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to the Massage Therapy Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Massage Therapy Course Sequence

Prerequisite: 1 credit

- MAS 100 - Introduction to Massage 1 credit hour
MAS 100 must be completed with a grade of C or better or be currently registered prior to submitting an application. If currently taking MAS 100, must complete with a C or better in order to gain full acceptance into the program and register for MAS 110.

General Education Requirements: 25 credits

- BIO 230 - Structure and Function of the Human Body 4 credit hours
The BIO 231 - BIO 232 sequence or the BIO 233 - BIO 234 sequence is an option if students prefer to take them in lieu of passing BIO 230.
- CTA 100 - Computing and Information Technology 3 credit hours **OR**
- CTP 103 - Theories and Applications of Digital Technology 3 credit hours

Social and Behavioral Sciences: 3 credits

See Social and Behavioral Sciences General Education Courses for a list of approved courses. The course you choose must also satisfy AACC's Diversity requirement.

English: 6 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours **OR**
- ENG 101A - Academic Writing and Research 1 3 credit hours
- ENG 102 - Academic Writing and Research 2 3 credit hours

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Arts and Humanities: 3 credits

See General Education Arts and Humanities Requirements for a list of approved courses.

Wellness: 3 credits

See General Education Wellness Requirements for a list of approved courses.

Program Requirements: 34 credits

- MAS 108 - The Science of Massage Therapy 4 credit hours
- MAS 110 - Fundamentals of Massage Therapy 7 credit hours
- MAS 111 - Intermediate Massage Therapy 6 credit hours
- MAS 117 - Kinesiology for Massage Therapists 3 credit hours
- MAS 118 - Business for Bodyworkers 2 credit hours
- MAS 119 - Massage and Bodywork Specialized Modalities 3 credit hours

- MAS 120 - Massage Therapy Clinic 1 1 *credit hour*
- MAS 213 - Advanced Massage Therapy 6 *credit hours*
- MAS 220 - Massage Therapy Clinic 2 1 *credit hour*
- MAS 225 - Licensing Exam Prep 1 *credit hour*

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Integrate knowledge of anatomy, physiology, pathology, kinesiology, and massage theory to use critical thinking skills to plan and organize an effective massage therapy session tailored to each client's specific needs.
2. Perform therapeutic massage demonstrating the use of massage therapy principles and a variety of techniques.
3. Develop and implement a self-care strategy.
4. Demonstrate ethical and legal behavior, cultural sensitivity, boundaries and effective communication with clients and professionals in the massage therapy profession.
5. Develop a strategy for a successful practice, business or employment situation.
6. Document massage sessions according to industry standards.
7. Prepare to pass the MBLEx and Maryland jurisprudence exam.
8. Integrate knowledge of pathology, medical devices, and functional and environmental limitations to develop a treatment plan for safe and effective clinical massage in a healthcare setting.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Massage Therapy (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Massage Therapy (certificate)

Special Admission Requirements - Rolling Admission

Official Title of Certificate: Massage Therapy, Certificate

Award: Certificate

Code: CRT.IHE.MASS-THRPY

Total Credit Hours: A minimum of 35

Visit www.aacc.edu to learn more about the Massage Therapy Certificate program

Purpose: To provide a new career path for students wishing to practice as a licensed massage therapist.

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Range of Occupations

- Licensed Massage Therapist (LMT)

Additional Program Requirements

Students must receive a minimum final grade of C in all massage therapy courses, in order to progress in the sequence of massage courses.

Students enrolled in the massage therapy course sequence are required to comply with the National Certification Board for Therapeutic Massage and Bodywork (NCBTMB) Code of Ethics.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to the Massage Therapy Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Massage Therapy Course Sequence

Certificate Requirements: 35 credits

Prerequisite: 1 credit

- MAS 100 - Introduction to Massage 1 credit hour
MAS 100 must be completed with a grade of C or better or be currently registered prior to submitting an application. If currently taking MAS 100, must complete with a C or better in order to gain full acceptance into the program and register for MAS 110.

Program Requirements: 34 credits

All MAS courses require a grade of C or better.

- MAS 108 - The Science of Massage Therapy 4 credit hours
- MAS 110 - Fundamentals of Massage Therapy 7 credit hours
- MAS 111 - Intermediate Massage Therapy 6 credit hours
- MAS 117 - Kinesiology for Massage Therapists 3 credit hours
- MAS 118 - Business for Bodyworkers 2 credit hours
- MAS 119 - Massage and Bodywork Specialized Modalities 3 credit hours
- MAS 213 - Advanced Massage Therapy 6 credit hours
- MAS 120 - Massage Therapy Clinic 1 1 credit hour
- MAS 220 - Massage Therapy Clinic 2 1 credit hour
- MAS 225 - Licensing Exam Prep 1 credit hour

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Integrate knowledge of anatomy, physiology, pathology, kinesiology, and massage theory to use critical thinking skills to plan and organize an effective massage therapy session tailored to each client's specific needs.
2. Perform therapeutic massage demonstrating the use of massage therapy principles and a variety of techniques.
3. Develop and implement a self-care strategy.
4. Demonstrate ethical and legal behavior, cultural sensitivity, boundaries and effective communication with clients and professionals in the massage therapy profession.
5. Develop a strategy for a successful practice, business or employment situation.
6. Document massage sessions according to industry standards.
7. Prepare to pass the MBLEx and Maryland jurisprudence exam.
8. Integrate knowledge of pathology, medical devices, and functional and environmental limitations to develop a treatment plan for safe and effective clinical massage in a healthcare setting.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Massage Therapy (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Mathematics (A.S.)

Official Title of Major: Mathematics, A.S.

Award: Associate of Science degree, A.S.

Code: AS.MATH.MATH

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Mathematics Department

Purpose: Prepares for transfer to a four-year institution and a major in mathematics or other subjects which require a strong mathematics background. Prepares also for further study in business, engineering, mathematics, physical sciences, or statistics. Develops skills in analyzing and interpreting problems, computer-based problem solving, and using mathematical reasoning to further the scientific method.

Range of Occupations

- With continued study after transfer, a mathematics degree may lead to positions in actuarial science, computer science, cryptology, demography, econometrics, engineering, mathematics, mathematics education, the physical sciences, or statistics.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 35 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

See General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 7 credits

At least one lab course required. Students should check with their transfer institution for specific course requirements. Refer to Biological and Physical Sciences General Education Courses for a list of approved courses.

Mathematics: 4 credits

- MAT 191 - Calculus and Analytic Geometry 1 4 *credit hours*

Social and Behavioral Sciences: 6 credits

Refer to Social and Behavioral Sciences General Education Courses for a list of approved courses.

Additional General Education requirements: 6 credits

- **Technology Requirement** 3 credit hours

Recommended:

- CTP 103 - Theories and Applications of Digital Technology 3 credit hours **OR**
- EGR 120 - Introduction to Engineering Design 3 credit hours

Refer to Technology Requirement Courses (General Education) for a list of other approved courses.

- **Wellness Requirement** 3 credit hours

Refer to General Education Wellness Requirement for a list of approved courses.

Program Requirements: 25 credits

Core Courses: 16 credits

- MAT 192 - Calculus and Analytic Geometry 2 4 credit hours
- MAT 201 - Calculus and Analytic Geometry 3 4 credit hours
- MAT 202 - Linear Algebra 4 credit hours
- MAT 212 - Differential Equations 4 credit hours

Electives: 9 Credits

Choose from the list below. Consult with an Academic Advisor when selecting your electives to ensure transferability to your chosen 4-year institution. Note: Credit is not given for both MAT 135 and MAT 223.

- BPA 201 - Financial Accounting 3 credit hours
- BPA 202 - Managerial Accounting 3 credit hours
- CHE 111 - General Chemistry 1 4 credit hours
- CHE 112 - General Chemistry 2 4 credit hours
- CHE 213 - Organic Chemistry 1 4 credit hours
- CHE 214 - Organic Chemistry 2 4 credit hours
- CTP 150 - Computer Science 1 4 credit hours
- CTP 250 - Computer Science 2 4 credit hours
- ECO 211 - Principles of Economics 1 3 credit hours
- ECO 212 - Principles of Economics 2 3 credit hours
- EGR 209 - Statics 3 credit hours
- EGR 222 - Dynamics 3 credit hours
- MAT 135 - Statistics 3 credit hours
- MAT 223 - Fundamental Concepts of Mathematics 3 4 credit hours
- MAT 235 - Introduction to Data Science 4 credit hours
- MAT 250 - Introduction to Discrete Structures 3 credit hours
- PHY 211 - General Physics 1 4 credit hours
- PHY 212 - General Physics 2 4 credit hours
- PHY 213 - General Physics 3 4 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

CTP 103 OR EGR 120.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Use the vocabulary and notation of higher-level mathematics to communicate mathematically.
2. Create and interpret mathematical relations and functions through graphical, numerical, and symbolic processes.
3. Evaluate and use appropriate higher-level mathematical techniques (e.g., calculus, linear algebra, differential equations) and technology to solve problems.
4. Apply mathematical principles to analyze real-world problems in mathematically dependent fields.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Mechatronics Engineering Technology (A.A.S.)

Official Title of Major: Mechatronics Engineering Technology, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.EGR.MECHATRONICS

Total Credit Hours: A minimum of 62

Visit www.aacc.edu to learn more about the Engineering Department

Purpose:

Mechatronics is the combination of electrical, mechanical, and software technologies used in today's industry. Students who complete the Mechatronics program will acquire a skill-set highly sought by many such as: manufacturing, packaging, automated distribution warehouses, and biomedical equipment companies, to name a few. If a process or product has a "line" or "moving parts", chances are there is a need for a mechatronics technician to keep it operating at peak performance. Ideal candidates for the program are those who like to work with their hands, troubleshoot and prefer moving about as opposed to sitting at a desk.

Topics covered in the program through lecture and hands-on labs include: mechanical systems, programmable logic controllers (PLCs), pneumatics, robotics, and computer-aided design.

Range of Occupations Include:

- Electro-Mechanical Technicians
- Robotics Technicians
- Electronic Equipment Technicians
- Biomedical Equipment Technician

- Automation Technicians
- Mechatronic Technicians
- Manufacturing Technicians
- Field Service Technicians
- Programmable Logic Controller Technicians

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 25-26 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

Complete one of the following courses:

- COM 110 - Introduction to Interpersonal Communication 3 *credit hours* **OR**
- COM 111 - Fundamentals of Oral Communication 3 *credit hours* **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours* **OR**
- COM 141 - Group Communication and Leadership 3 *credit hours*

Biological and Physical Sciences: 4 credits

- PHY 111 - Fundamentals of Physics 1 4 *credit hours* **OR**
- PHY 211 - General Physics 1 4 *credit hours*

Mathematics: 3-4 credits

- MAT 137 - College Algebra 3 *credit hours*
OR
- MAT 145 - Precalculus 1 3 *credit hours* **OR**
- MAT 151 - Accelerated Precalculus 4 *credit hours* **OR**

- MAT 191 - Calculus and Analytic Geometry 1 4 credit hours

Social and Behavioral Sciences: 3 credits

Refer to General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education requirements: 6 credits

- **Technology Requirement** 3 credit hours

Must choose one from:

- CTA 100 - Computing and Information Technology
- CTP 103 - Theories and Applications of Digital Technology
- CTS 107 - Cyber Essentials
- EGR 120 - Introduction to Engineering Design
- UAS 111 - Introduction to Drone Technology

- **Wellness Requirement** 3 credit hours

Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 36-37 credits

- EET 130 - Introduction to Electronic Circuits 4 credit hours
 - ENT 260 - Solid Modeling with SolidWorks 3 credit hours
 - MEC 110 - Mechanical Systems 4 credit hours
 - MEC 120 - Pneumatics and Hydraulics 4 credit hours
 - MEC 130 - Programmable Logic Controllers 4 credit hours
 - MEC 140 - Introduction to Robotics 4 credit hours
 - MEC 230 - Electric Motor Fundamentals 3 credit hours
 - STM 213 - Professional Skills for STEM 1 credit hour
 - MEC 266 - Mechatronic Systems Capstone 3 credit hours
- Students using MAT 137 or MAT 145 to satisfy the Mathematics General Education Requirement must complete 7 credits of Technical Elective credits from the list below. Students using MAT 151 or MAT 191 are required to complete 6 credits.*
- EET 109 - Circuit Assembly Techniques 2 credit hours
 - EET 150 - Semiconductors and Linear Circuits 4 credit hours
 - EET 231 - Digital-Electronic Circuits 4 credit hours
 - EET 250 - Microprocessors and Microcontrollers 4 credit hours
 - EET 255 - Metrology and Calibration 4 credit hours
 - EET 260 - Electronic Communication Systems 4 credit hours
 - ENT 241 - Computer-Aided Drafting 3 credit hours
 - ENT 242 - Advanced Computer-Aided Drafting and Design 3 credit hours
 - ENT 261 - Rapid Prototyping Techniques 4 credit hours
 - MAT 146 - Precalculus 2 3 credit hours
 - MAT 191 - Calculus and Analytic Geometry 1 4 credit hours
 - PHY 112 - Fundamentals of Physics 2 4 credit hours
 - PHY 212 - General Physics 2 4 credit hours
 - UAS 100 - Uncrewed Aircraft Systems Remote Pilot Ground School 1 credit hour
- If UAS-111 is used to meet the Technology requirement, UAS-100 should not be taken.*

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by CTA 100 or CTP 103 or CTS 107 or EGR 120 or UAS-111.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students should be able to:

1. Apply appropriate safety standards and protocols
2. Operate, install, and troubleshoot electronically-controlled fluid power systems
3. Isolate problems on a variety of industrial systems involving electronics, mechanical systems, sensors, actuators, fluid mechanics, instrumentation, and controls.
4. Program, install, and troubleshoot programmable logic controllers (PLCs) in mechatronics systems.
5. Interpret technical documentation such as data sheets and specifications of mechatronic system components.
6. Demonstrate professional and critical thinking skills essential to workplace success.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Mechatronics Technology (certificate)

Official Title of Certificate: Mechatronics Technology, Certificate

Award: Certificate

Code: CRT.EGR.MECHATRONICS

Total Credit Hours: 27

Visit www.aacc.edu to learn more about the Engineering Department

Purpose: A compressed program leading to a 27-credit Mechatronics Technology Certificate in as little as one year. Participants need no previous experience and will be prepared for entry-level jobs in an integrated multidisciplinary industrial environment. Instruction in mechatronics provides students with the knowledge and hands-on training in electronics, mechanics and computers to work in a variety of industrial and manufacturing related businesses. The certificate offers employment preparation opportunities, as well as, the opportunity to upgrade and improve existing skills.

Range of Occupations

- Mechatronic technician
- Robotic technician
- Industrial automation technician

- Electro-mechanical fitter

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 27 credits

- EET 130 - Introduction to Electronic Circuits *4 credit hours*
- STM 213 - Professional Skills for STEM *1 credit hour*
- MEC 110 - Mechanical Systems *4 credit hours*
- MEC 120 - Pneumatics and Hydraulics *4 credit hours*
- MEC 130 - Programmable Logic Controllers *4 credit hours*
- MEC 140 - Introduction to Robotics *4 credit hours*
- MEC 266 - Mechatronic Systems Capstone *3 credit hours*
- ENT 260 - Solid Modeling with SolidWorks *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Function as technicians in an integrated multidisciplinary industrial environment.
- Complete the Level 1 Certification Examination and become certified Siemens Mechatronics System Assistants.
- Assemble or disassemble basic mechanical components and electrical drives in a mechatronics system
- Discuss the basic functions and physical properties of mechanical components and electrical AC and DC drives; materials, lubrication requirements and surface properties.
- Practice systematic preventative maintenance and safety
- Interpret technical documentation such as data sheets and specifications of mechanical elements and electrical drives.
- Operate pneumatic, electro pneumatic and hydraulic control circuits in a complex mechatronic system.
- Discuss the functions and properties of control elements based upon physical principles, and the roles they play within the system.
- Interpret technical documentation such as data sheets, circuit diagrams, displacement step diagrams and function charts.
- Complete measurements on the pneumatic and hydraulic control circuits
- Perform preventive maintenance of components and systems.
- Program and operate digital logic circuits and programmable logic controllers (PLCs) in a mechatronics system using an automation system.
- Localize PLC hardware generated problems.
- Write programs and use problem-solving skills while using computer simulations of systems.
- Explain the basic concepts of robotics, focusing on the construction and programming of autonomous mobile robots and Industrial Robots.
- Function in groups to build and test increasingly more complex robots, culminating in an end-of-semester robot project.
- Build analyze and troubleshoot direct and alternating current circuits.
- Interpret and create 2 dimensional (2D) drawings and 3D solid models.
- Integrate those 3D models into an assembly.
- Complete the Solidworks examination to become certified as a SolidWorks Associate.
- Localize and identify causes and sources of malfunctions, and correct where possible.
- Document malfunctions to be passed on to the appropriate experts.
- Exchange or replace defective components, where appropriate.
- Recognize potential or impending malfunctions and contact expert assistance in order to keep the production line functioning and to prevent production loss.

- Consult with experts.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Mechatronics Engineering Technology (A.A.S.)
- Electronics Technology (certificate)

Media Production (certificate)

Official Title of Certificate: Media Production, Certificate

Award: Certificate

Code: CRT.VSL.MEDIA-PROD

Total Credit Hours: A minimum of 27

Visit www.aacc.edu to learn more about the Department of Visual Arts and Humanities

Purpose: The media production certificate prepares students in the fundamentals of developing television programs. The courses cover technical areas such as equipment set-up and operation, lighting, selection of lenses and audio. Other important areas include program planning, the production process, image composition and video graphics.

This certificate is a serious introduction to the field rather than a comprehensive study of production methods. It is beneficial to students who need an introduction to video production methods for employment or personal use.

Range of Occupations

- Camera operator
- Grip
- Video production assistant

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 27 credits

- ART 106 - Introduction to Digital Design *3 credit hours*
- ART 112 - Introduction to Sound Design *3 credit hours*
- ART 121 - Darkroom Photography 1: Black & White *3 credit hours*
- ART 239 - Techniques of Photographic Lighting *3 credit hours*
- ART 160 - Video 1 *3 credit hours*
- ART 161 - Video Editing *3 credit hours*
- ART 260 - Video 2 *3 credit hours*
- ART 275 - Digital Arts Internship *3 credit hours*

The practicum (ART 275) must be in video production.

- **ART Electives** (with approval of department chair): 3 credit hours

Program Outcomes

Upon successful completion of the Video Production Certificate, students will be able to:

- Create storyboards, use video equipment, and organize shoots and video crew;
- Create, mix, and edit images, sounds, and video into presentation for various genres;
- Develop skills in using digital video as a medium for storytelling;
- Produce analysis and criticism of films;
- Analyze the relationship between film and culture;
- Apply various critical methodologies to interpret films;
- Discuss history of film and film industry.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Graphic Design (certificate)
- Photography (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Medical Assisting (A.A.S.)

Official Title of Major: Medical Assisting, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.MDA.MDA

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Medical Assisting Degree program

Purpose: Prepares students for employment in physicians' offices, hospital administrative offices, clinics, medical departments of industry and government and wherever basic office and clinical skills are required. Graduates are eligible to sit for certification examinations given by the American Association of Medical Assistants to become a Certified Medical Assistant, the American Medical Technologists to earn a Registered Medical Assistant Certification, and the National Healthcareer Association exam for Certified Medical Assistants and/or Medical Administrative Assistants. Persons who already are employed in this field may enroll in this program for career development.

Additional Program Requirements

All Medical Assisting Program students must receive a minimum grade of C in each medical assisting and general education course. Students who receive a final grade below C in any medical assisting course will be awarded a grade of F in that course.

Range of Occupations

- Administrative medical assistant
- Clinical medical assistant
- Medical office management

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Entrance/Admission Requirements

Admission Requirements

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 25 credits

Biological and Physical Sciences: 4 credits

- BIO 230 - Structure and Function of the Human Body *4 credit hours*

English: 6 credits

- ENG 101 - Academic Writing and Research 1 *3 credit hours* **OR**
- ENG 101A - Academic Writing and Research 1 *3 credit hours*
- AND**
- ENG 102 - Academic Writing and Research 2 *3 credit hours*

Arts and Humanities: 3 credits

- COM 111 - Fundamentals of Oral Communication *3 credit hours*
- OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers *3 credit hours*

Social and Behavioral Sciences: 6 credits

- PSY 111 - Introduction to Psychology *3 credit hours*
- SOC 111 - Introduction to Sociology *3 credit hours*

Mathematics: 3 credits

- MAT 100 - The Nature of Mathematics 3 credit hours **OR**
- MAT 133 - Finite Mathematics 3 credit hours **OR**
- MAT 135 - Statistics 3 credit hours **OR**
- MAT 145 - Precalculus 1 3 credit hours

Additional General Education Requirements: 3 credits

- CTA 100 - Computing and Information Technology 3 credit hours
OR
- CTP 103 - Theories and Applications of Digital Technology 3 credit hours

Program Requirements: 35 credits

- ACA 100 - Student Success Seminar 1 credit hour
- MDA 111 - Laws and Ethics for Health Professionals 2 credit hours
- MDA 112 - Pharmacology for Health Professions 3 credit hours
- MDA 113 - Medical Terminology 3 credit hours
- MDA 114 - Diseases of the Human Body 3 credit hours
- MDA 115 - Administrative Medical Assisting 1 3 credit hours
- MDA 117 - Administrative Medical Assisting 2 3 credit hours
- MDA 200 - Electronic Health Records 3 credit hours
- MDA 140 - Clinical Medical Assisting 1 6 credit hours
- MDA 142 - Clinical Medical Assisting 2 4 credit hours
- MDA 274 - Professional Seminar 1 credit hour
- MDA 275 - Medical Assisting Practicum 3 credit hours
Practicum internship requires 160 hours of unpaid supervised work experience in a physician's office or wherever medical office administration with clinical skills is required. Eligibility: Completion of all courses required for the MDA certificate with a minimum of 2.0 GPA; meeting the technical standards of the Medical Assisting department.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Describe structural organization of the human body across the life span
2. Solve mathematical computations related to patient care and medication administration
3. Define the principles of Infection Control practiced within the ambulatory patient care setting
4. Identify the specific dietary needs related to maintaining health and disease prevention
5. Identify styles and types of effective communication techniques utilized in the healthcare setting
6. Explain the administrative functions performed in a health care setting
7. Describe basic practice finances performed by the medical assistant in the health care setting
8. Apply third party reimbursement methods related to health care operations
9. Describe how to use the most current procedural and diagnostic coding
10. Describe the legal implications related to the medical assistant scope of practice
11. Describe the ethical considerations of the medical assisting profession
12. Apply the principles of protective practices in the health care setting

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Medical Assisting (certificate)

Official Title of Certificate: Medical Assisting, Certificate

Award: Certificate

Code: CRT.MDA.MDA

Total Credit Hours: 32

Visit www.aacc.edu to learn more about the Medical Assisting Certificate program

Purpose: Prepares students for employment in physicians' offices, hospital administrative offices, clinics, medical departments of industry and government and wherever basic office and clinical skills are required. Graduates are eligible to sit for certification examinations given by the American Association of Medical Assistants to become a Certified Medical Assistant, the American Medical Technologists to earn a Registered Medical Assistant Certification, and the National Healthcareer Association exam for Certified Medical Assistants and/or Medical Administrative Assistants. Persons who already are employed in this field may enroll in this program for career development.

Anne Arundel Community College's Medical Assisting Certificate program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Medical Assisting Education Review Board (MAERB).

Range of Occupations

- Administrative medical assistant
- Medical assistant to physician

Additional Program Requirements

All Medical Assisting Program students must receive a minimum grade of C in each medical assisting course. Students who receive a final grade below C in any medical assisting course will be awarded a grade of F in that course.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Entrance/Admission Requirements

Admission Requirements

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Certificate Requirements: 32 credits

Fall Term 1

- ACA 100 - Student Success Seminar 1 credit hour
- MDA 113 - Medical Terminology 3 credit hours
- MDA 115 - Administrative Medical Assisting 1 3 credit hours

Fall Term 2

- MDA 117 - Administrative Medical Assisting 2 3 *credit hours*
- MDA 200 - Electronic Health Records 3 *credit hours*

Total credit hours: 13

Winter Term

- MDA 111 - Laws and Ethics for Health Professionals 2 *credit hours*
- MDA 112 - Pharmacology for Health Professions 3 *credit hours*

Total credit hours: 5

Spring Term 1

- MDA 140 - Clinical Medical Assisting 1 6 *credit hours*
- MDA 142 - Clinical Medical Assisting 2 4 *credit hours*

Total credit hours: 10

Spring Term 2

- MDA 274 - Professional Seminar 1 *credit hour*
- MDA 275 - Medical Assisting Practicum 3 *credit hours*
Practicum (MDA 275) internship requires 160 hours of unpaid supervised work experience in a physician's office or wherever medical office administration with clinical skills is required. Eligibility: Completion of all courses required for the MDA certificate with a minimum of 2.0 GPA; meeting the technical standards of the Medical Assisting department.

Total credit hours: 4

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Describe structural organization of the human body across the life span
2. Solve mathematical computations related to patient care and medication administration
3. Define the principles of Infection Control practiced within the ambulatory patient care setting
4. Identify the specific dietary needs related to maintaining health and disease prevention
5. Identify styles and types of effective communication techniques utilized in the healthcare setting
6. Explain the administrative functions performed in a health care setting
7. Describe basic practice finances performed by the medical assistant in the health care setting
8. Apply third party reimbursement methods related to health care operations
9. Describe how to use the most current procedural and diagnostic coding
10. Describe the legal implications related to the medical assistant scope of practice
11. Describe the ethical considerations of the medical assisting profession
12. Apply the principles of protective practices in the health care setting

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Medical Coding (certificate)

Special Admission Requirements - Rolling Admission

Official Title of Certificate: Medical Coding, Certificate

Award: Certificate

Code: CRT.IHE.MED-CODE

Total Credit Hours: 40-44

Visit www.aacc.edu to learn more about the Medical Coding Certificate program

Purpose: To provide eligibility status to sit for the Certified Professional Coder Examination (CPC) offered by the American Academy of Professional Coders or the Certified Coding Specialist (CCS) exam offered by the American Health Information Management Association.

Range of Occupations

Certified Coding Specialists and Certified Professional Coders work in physicians' offices, managed care organizations, ambulatory care centers or hospitals.

Additional Program Requirements

All Medical Coding students must receive a minimum grade of C in each medical coding course. Students who receive a final grade below a C in any medical coding course will be awarded a grade of F in that course.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to the Medical Coding Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see the Health Sciences section of this catalog.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Requirements

Prerequisites

- BIO 231 - Human Biology 1 *4 credit hours* **AND**
- BIO 232 - Human Biology 2 *4 credit hours*
- **OR**
- BIO 233 - Anatomy and Physiology 1 *4 credit hours* **AND**
*BIO 101 (4 credits) is a prerequisite for BIO 233.
- BIO 234 - Anatomy and Physiology 2 *4 credit hours*
- CTA 100 - Computing and Information Technology *3 credit hours*
- **OR**
- CTP 103 - Theories and Applications of Digital Technology *3 credit hours*
- MDA 113 - Medical Terminology *3 credit hours*

Total credit hours: 14-18

Term 1

- MDC 101 - Introduction to Medical Coding *3 credit hours*
- MDC 103 - Introduction to ICD Coding *3 credit hours*
- MDC 105 - Introduction to CPT/HCPCS Coding *3 credit hours*
- MDA 114 - Diseases of the Human Body *3 credit hours*

Total credit hours: 12

Term 2

- MDA 112 - Pharmacology for Health Professions *3 credit hours*
- MDA 116 - Fundamentals of Health Care Delivery Systems *3 credit hours*
- MDC 201 - Advanced Medical Coding *3 credit hours*
- MDC 203 - Reimbursement Methodologies *3 credit hours*
- MDC 275 - Medical Coding Practicum *2 credit hours*

Total credit hours: 14

Total credits: 40-44

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Demonstrate critical thinking and problem-solving skills related to reimbursement and medical coding.
2. Demonstrate professionalism in medical coding based on sound ethical values.
3. Apply CPT, ICD-10, and HCPCS coding guidelines to identify diagnoses, procedures, and patient medical records.
4. Recognize laws and theories related to the practice of medical coding, including issues relating to ethics and confidentiality.
5. Obtain eligibility to sit for certification exams.

6. Demonstrate knowledge and skill required to practice the profession of medical coding with the recognition of diverse cultural and socioeconomic differences in a healthcare setting.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Medical Laboratory Assistant (certificate)

Special Admission Requirements - Rolling Admission

Official Title of Certificate: Medical Laboratory Assistant, Certificate

Award: Certificate

Code: CRT.MLT.MLA

Total Credit Hours: 29

Visit www.aacc.edu to learn more about the Medical Laboratory Sciences Department

Purpose: Prepares students as trained clinical laboratory assistants in a variety of clinical laboratory settings including hospitals, clinics and physician office laboratories.

Range of Occupations

- Medical Laboratory Assistant

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

**If application deadline falls on a weekend, then applications will be accepted until the close of business on the next business day.*

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to the Medical Laboratory Assistant Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Certificate Requirements: 29 credits

First Term

- MLT 125 - Phlebotomy 4 credit hours
- MLT 275 - Phlebotomy Practicum 2 credit hours
- MLT 103 - Entry Level Clinical Laboratory Testing 4 credits

- MDA 100 - Introduction to Medical Terminology *1 credit hour*
- MDA 110 - Professionalism in Health Care *1 credit hours*

Total credits: 12

Second Term

- MLT 102 - Quality Assurance and Quality Control *1 credit hour*

Total credits: 1

Third Term

- BIO 231 - Human Biology *1 4 credit hours*
- MLT 100 - Introduction to the Medical Laboratory *4 credit hours*
- MLT 101 - Urinalysis and Body Fluids *3 credit hours*
- CTA 100 - Computing and Information Technology *3 credit hours*
- MLT 274 - Medical Laboratory Assistant Practicum *2 credit hours*

Total Credits: 16

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Use technical, critical thinking and problem-solving skills in their didactic and clinical experiences.
2. Practice their profession within the clinical laboratory legal framework, utilizing sound ethical values.
3. Promote and maintain cooperative and successful relationships between clients, patients, physicians, allied health providers, and the health care community.
4. Promote advocacy of the profession through affiliations with professional organizations, marketing of professional skills, and by becoming vital members of the health care delivery system.
5. Obtain eligibility to sit for certification and/or registration exams.
6. Practice the profession of clinical laboratory assistant with the recognition of, and sensitivity to, cultural and socioeconomic differences.
7. Demonstrate effective written, oral, and nonverbal communication with colleagues, other health care providers, and the public.
8. Participate in continuing education and the development of new knowledge and skills.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Medical Laboratory Technician (A.A.S.)

Special Admission Requirements - Rolling Admission

Official Title of Major: Medical Laboratory Technician, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Total Credit Hours: 66

Code: AAS.MLT.MLT

Visit www.aacc.edu to learn more about the Medical Laboratory Technician Degree program

Purpose: Prepares the student for entry-level employment in laboratory medicine to meet the current and the increasing demands for medical laboratory technicians. Medical laboratory technicians work in a variety of settings, such as hospitals, clinics, physician's offices, and independent laboratories. The medical laboratory technician performs phlebotomy procedures; procures and performs blood and non-blood testing in the clinical laboratory; and aids the physician in diagnosing, monitoring, and determining treatment modalities, functioning as an essential member of the health care team. Skills include preparation of specimens, examination and analysis of blood and non-blood specimens, microscopy, and using and maintaining automated laboratory equipment.

The Anne Arundel Community College Medical Laboratory Technician program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). NAACLS is recognized by the Council for Higher Education Accreditation (CHEA). NAACLS, 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119, 773-714-8880.

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Range of Occupations

- Medical laboratory technician

Additional Program Requirements

A grade of C or better in each medical laboratory technician and general education course is required to progress in the program. Students practice selected procedures on each other, and perform manual and automated testing in the college laboratory. Students are required, after successful completion of coursework, to perform 480 unpaid practicum hours in the clinical setting.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to the Medical Laboratory Technician Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Medical Laboratory Technician Program Sequence

Program Requirements

First Year - Term 1

- BIO 231 - Human Biology 1 *4 credit hours* **OR**
- BIO 233 - Anatomy and Physiology 1 *4 credit hours*
*BIO 231 is the recommended course for the MLT program because BIO 101 - Foundations of Biology: Molecules and Cells is a college prerequisite of BIO 233. Therefore, it will take two semesters to complete this science sequence. Students who take BIO 233 must have the MLT Academic Chair apply for BIO 231 course substitution before graduation. BIO 233 is recommended only for those students who have completed BIO 101 prior to entering the MLT program or those students who plan to continue their education in post-B.S. professional programs such as medicine or pharmacy. Students who plan on transferring to Stevenson University's MLS program should take BIO 231 in keeping with the requirements of the transfer articulation agreement.
- CHE 111 - General Chemistry 1 *4 credit hours*
- MLT 100 - Introduction to the Medical Laboratory *4 credit hours*

English Composition: 3 credits

- ENG 101 - Academic Writing and Research 1 *3 credit hours* **OR**
- ENG 101A - Academic Writing and Research 1 *3 credit hours*

Total credit hours: 15

First Year - Term 2

- BIO 223 - General Microbiology *4 credit hours*
- SOC 111 - Introduction to Sociology *3 credit hours*
(satisfies the college diversity requirement)
- MAT 137 - College Algebra *3 credit hours*
MAT 145, MAT 151, MAT 191, or MAT 230 will satisfy the MAT 137 requirement.
(Former MAT courses: MAT 121, MAT 131, MAT 141 or MAT 142 will also satisfy the MAT 137 requirement.)
- MLT 101 - Urinalysis and Body Fluids *3 credit hours*
- MLT 102 - Quality Assurance and Quality Control *1 credit hour*

English Composition: 3 credits

- ENG 102 - Academic Writing and Research 2 *3 credit hours*

Total credit hours: 17

Summer

- COM 111 - Fundamentals of Oral Communication *3 credit hours* **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers *3 credit hours*
- CTA 100 - Computing and Information Technology *3 credit hours* **OR**
- CTP 103 - Theories and Applications of Digital Technology *3 credit hours*

(satisfies the college computer competency requirement)

Total credit hours: 6

Second Year - Term 1

- MLT 202 - Clinical Microbiology 4 credit hours
- MLT 203 - Clinical Chemistry 4 credit hours
- MLT 204 - Clinical Immunology/Immunochemistry 4 credit hours
- MLT 205 - Clinical Hematology 4 credit hours

Total credit hours: 16

Second Year - Term 2

- MLT 206 - Advanced Clinical Chemistry 2 credit hours
- MLT 208 - Clinical Review 2 credit hours
- MLT 276 - Clinical Hematology Practicum 2 credit hours
- MLT 277 - Clinical Chemistry Practicum 2 credit hours
- MLT 278 - Clinical Microbiology Practicum 2 credit hours
- MLT 279 - Clinical Immunohematology Practicum 2 credit hours

Total credit hours: 12

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by CTA 100 or CTP 103.

Wellness Requirement

Wellness Requirement satisfied throughout the program by MLT 100, MLT 101, MLT 202, MLT 203, MLT 204, MLT 205, MLT 206, MLT 276, MLT 277, MLT 278, and MLT 279.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Utilize technical, critical thinking and problem-solving skills in their didactic and clinical experiences.
2. Apply ethical values and appropriate legal standards in clinical laboratory practice.
3. Promote and maintain cooperative and successful relationships between clients, patients, physicians, allied health providers, and the health care community.
4. Promote advocacy of the profession through affiliations with professional organizations, marketing of professional skills, and by becoming vital members of the health care delivery system.
5. Apply knowledge of cultural and socioeconomic difference to the practice of medical laboratory technology.
6. Demonstrate effective written, oral, and nonverbal communication with colleagues, other health care providers, and the public.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Mobile Device Application Development (certificate)

Official Title of Certificate: Mobile Device Application Development, Certificate

Award: Certificate

Code: CRT.CIS.MOBL-DEVICE

Total Credit Hours: 20

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: Develop and apply programming skills, as well as Android and iOS development environment skills, to create applications for mobile devices such as iPads, iPhones, Android phones and tablets.

Range of Occupations

- Mobile device app developer

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 20 credits

- CTP 115 - Introductory Object-Oriented Program Analysis and Design *4 credit hours*
- CTP 118 - Web Development using HTML/CSS *4 credit hours*
- CTP 150 - Computer Science 1 *4 credit hours*
Students who have completed CSI 161 and CSI 162 are not required to take CTP 150. CSI 161 and CSI 162 will not be offered after spring 2015.
- CTP 230 - Android Programming *4 credit hours*
- CTP 232 - iPad/iPhone iOS Programming *1 4 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Program using the iOS operating system development environment.
- Develop meaningful applications for the iPhone and the iPad.
- Program using the Android operating system development environment.
- Develop meaningful applications for Android based smartphones and tablets.
- Develop web pages for portable devices such as smartphones and tablets.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Music Transfer (A.A.)

Title of Major: Music Transfer (A.A.)

Award: Associate of Arts degree, A.A.

Total Credit Hours: 60

Code: Contact Records Office

Visit www.aacc.edu to learn more about the Music Transfer program

Purpose: For students interested in pursuing professional training in performance, music education, composition, music technology, transferring to a four-year institution or gaining personal enrichment by concentrating in music.

A grade of C or better is required in all MUS courses to complete the program.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Transfer Considerations

Students should meet with their academic advisor or the academic chair of performing arts before selecting applied music courses. While the program can be completed by taking three or four credits of applied music depending on the selected track, it is strongly recommended that students complete six or eight credits to help with transfer to a four year institution.

General Education Requirements: 31 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- MUS 101 - Music Fundamentals 3 *credit hours*
- MUS 262 - World Music: Music as Culture 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one laboratory science course required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 6 credits

Refer to General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirements: 3 credits

Wellness Requirement

All students in Associate Degree programs must satisfy the Wellness requirement. Refer to Wellness Requirements for a list of approved courses.

Program Requirements: 29 credits

Required Courses: 17 credits

- MUS 113 - Music Theory and Ear Training 1 4 *credit hours*
- MUS 114 - Music Theory and Ear Training 2 4 *credit hours*
- MUS 141 - Class Piano 1 2 *credit hours*
- MUS 213 - Music Theory and Ear Training 3 4 *credit hours*
- MUS 230 - Recording Industry Techniques 1 3 *credit hours*
MUS 230 satisfies the Technology Requirement for this degree.

Choose one of the following tracks:

Performance and Composition: 12 credits

Choose four of the following:

- MUS 180 - Orchestra 1 *credit hour*
 - MUS 181 - Jazz Band 1 *credit hour*
 - MUS 182 - Concert Choir 1 *credit hour*
 - MUS 184 - Concert Band 1 *credit hour*
 - MUS 188 - Chamber Singers 1 *credit hour*
- AND**
- MUS 214 - Music Theory and Ear Training 4 4 *credit hours*

AND

Choose four applied music courses (each applied music course may be repeated for a total of 8 credits). Students are strongly encouraged to enroll in the 2 credit hour courses:

- MUS 192 - Applied Music: Acoustic Bass 2 *credit hours*
- MUS 192B - Applied Music: Acoustic Bass 1 *credit hour*
- MUS 193 - Applied Music: Bassoon Traditional 2 *credit hours*
- MUS 193B - Applied Music: Bassoon Traditional 1 *credit hour*
- MUS 194 - Applied Music: Cello Traditional 2 *credit hours*
- MUS 194B - Applied Music: Cello Traditional 1 *credit hour*
- MUS 195 - Applied Music: Clarinet Traditional 2 *credit hours*
- MUS 195B - Applied Music: Clarinet Traditional 1 *credit hour*
- MUS 196 - Applied Music: Electronic Synthesizer 2 *credit hours*
- MUS 196B - Applied Music: Electronic Synthesizer 1 *credit hour*
- MUS 197 - Applied Music: Euphonium Traditional 2 *credit hours*
- MUS 197B - Applied Music: Euphonium Traditional 1 *credit hour*

- MUS 198 - Applied Music: Flute Traditional 2 *credit hours*
- MUS 198B - Applied Music: Flute Traditional 1 *credit hour*
- MUS 199 - Applied Music: Acoustic Guitar Traditional 2 *credit hours*
- MUS 199B - Applied Music: Acoustic Guitar Traditional 1 *credit hour*
- MUS 200 - Applied Music: Harp 2 *credit hours*
- MUS 200B - Applied Music: Harp 1 *credit hour*
- MUS 204 - Applied Music: Horn Traditional 2 *credit hours*
- MUS 204B - Applied Music: Horn Traditional 1 *credit hour*
- MUS 206 - Applied Music: Oboe Traditional 2 *credit hours*
- MUS 206B - Applied Music: Oboe Traditional 1 *credit hour*
- MUS 207 - Applied Music: Organ 2 *credit hours*
- MUS 207B - Applied Music: Organ 1 *credit hour*
- MUS 208 - Applied Music: Percussion Traditional 2 *credit hours*
- MUS 208B - Applied Music: Percussion Traditional 1 *credit hour*
- MUS 209 - Applied Music: Piano Traditional 2 *credit hours*
- MUS 209B - Applied Music: Piano Traditional 1 *credit hour*
- MUS 210 - Applied Music: Saxophone Traditional 2 *credit hours*
- MUS 210B - Applied Music: Saxophone Traditional 1 *credit hour*
- MUS 211 - Applied Music: Trombone Traditional 2 *credit hours*
- MUS 211B - Applied Music: Trombone Traditional 1 *credit hour*
- MUS 212 - Applied Music: Trumpet Traditional 2 *credit hours*
- MUS 212B - Applied Music: Trumpet Traditional 1 *credit hour*
- MUS 215 - Applied Music: Tuba Traditional 2 *credit hours*
- MUS 215B - Applied Music: Tuba Traditional 1 *credit hour*
- MUS 216 - Applied Music: Viola 2 *credit hours*
- MUS 216B - Applied Music: Viola 1 *credit hour*
- MUS 217 - Applied Music: Violin Traditional 2 *credit hours*
- MUS 217B - Applied Music: Violin Traditional 1 *credit hour*
- MUS 218 - Applied Music: Voice Traditional 2 *credit hours*
- MUS 218B - Applied Music: Voice Traditional 1 *credit hour*
- MUS 219 - Applied Music: Electric Bass Guitar Traditional 2 *credit hours*
- MUS 219B - Applied Music: Electric Bass Guitar Traditional 1 *credit hour*
- MUS 220 - Applied Music: Dulcimer 2 *credit hours*
- MUS 220B - Applied Music: Dulcimer 1 *credit hour*
- MUS 221 - Applied Music: Composition Traditional 2 *credit hours*
- MUS 221B - Applied Music: Composition Traditional 1 *credit hour*
- MUS 222 - Applied Music: Conducting Traditional 2 *credit hours*
- MUS 222B - Applied Music: Conducting Traditional 1 *credit hour*

Music Technology: 12 credits

- MUS 160 - History of Popular Music 3 *credit hours*
 - MUS 231 - Recording Industry Techniques 2 3 *credit hours*
- AND**
Choose three of the following:
- MUS 180 - Orchestra 1 *credit hour*
 - MUS 181 - Jazz Band 1 *credit hour*
 - MUS 182 - Concert Choir 1 *credit hour*
 - MUS 184 - Concert Band 1 *credit hour*
 - MUS 188 - Chamber Singers 1 *credit hour*

AND

Choose three applied music courses (each applied music course may be repeated up to four times for a total of 8 credits). Students are strongly encouraged to enroll in the 2 credit hour courses:

- MUS 192 - Applied Music: Acoustic Bass *2 credit hours*
- MUS 192B - Applied Music: Acoustic Bass *1 credit hour*
- MUS 193 - Applied Music: Bassoon Traditional *2 credit hours*
- MUS 193B - Applied Music: Bassoon Traditional *1 credit hour*
- MUS 194 - Applied Music: Cello Traditional *2 credit hours*
- MUS 194B - Applied Music: Cello Traditional *1 credit hour*
- MUS 195 - Applied Music: Clarinet Traditional *2 credit hours*
- MUS 195B - Applied Music: Clarinet Traditional *1 credit hour*
- MUS 196 - Applied Music: Electronic Synthesizer *2 credit hours*
- MUS 196B - Applied Music: Electronic Synthesizer *1 credit hour*
- MUS 197 - Applied Music: Euphonium Traditional *2 credit hours*
- MUS 197B - Applied Music: Euphonium Traditional *1 credit hour*
- MUS 198 - Applied Music: Flute Traditional *2 credit hours*
- MUS 198B - Applied Music: Flute Traditional *1 credit hour*
- MUS 199 - Applied Music: Acoustic Guitar Traditional *2 credit hours*
- MUS 199B - Applied Music: Acoustic Guitar Traditional *1 credit hour*
- MUS 200 - Applied Music: Harp *2 credit hours*
- MUS 200B - Applied Music: Harp *1 credit hour*
- MUS 204 - Applied Music: Horn Traditional *2 credit hours*
- MUS 204B - Applied Music: Horn Traditional *1 credit hour*
- MUS 206 - Applied Music: Oboe Traditional *2 credit hours*
- MUS 206B - Applied Music: Oboe Traditional *1 credit hour*
- MUS 207 - Applied Music: Organ *2 credit hours*
- MUS 207B - Applied Music: Organ *1 credit hour*
- MUS 208 - Applied Music: Percussion Traditional *2 credit hours*
- MUS 208B - Applied Music: Percussion Traditional *1 credit hour*
- MUS 209 - Applied Music: Piano Traditional *2 credit hours*
- MUS 209B - Applied Music: Piano Traditional *1 credit hour*
- MUS 210 - Applied Music: Saxophone Traditional *2 credit hours*
- MUS 210B - Applied Music: Saxophone Traditional *1 credit hour*
- MUS 211 - Applied Music: Trombone Traditional *2 credit hours*
- MUS 211B - Applied Music: Trombone Traditional *1 credit hour*
- MUS 212 - Applied Music: Trumpet Traditional *2 credit hours*
- MUS 212B - Applied Music: Trumpet Traditional *1 credit hour*
- MUS 215 - Applied Music: Tuba Traditional *2 credit hours*
- MUS 215B - Applied Music: Tuba Traditional *1 credit hour*
- MUS 216 - Applied Music: Viola *2 credit hours*
- MUS 216B - Applied Music: Viola *1 credit hour*
- MUS 217 - Applied Music: Violin Traditional *2 credit hours*
- MUS 217B - Applied Music: Violin Traditional *1 credit hour*
- MUS 218 - Applied Music: Voice Traditional *2 credit hours*
- MUS 218B - Applied Music: Voice Traditional *1 credit hour*
- MUS 219 - Applied Music: Electric Bass Guitar Traditional *2 credit hours*
- MUS 219B - Applied Music: Electric Bass Guitar Traditional *1 credit hour*
- MUS 220 - Applied Music: Dulcimer *2 credit hours*
- MUS 220B - Applied Music: Dulcimer *1 credit hour*
- MUS 221 - Applied Music: Composition Traditional *2 credit hours*

- MUS 221B - Applied Music: Composition Traditional 1 *credit hour*
- MUS 222 - Applied Music: Conducting Traditional 2 *credit hours*
- MUS 222B - Applied Music: Conducting Traditional 1 *credit hour*

Diversity Requirement

Satisfied by MUS 262.

Technology Requirement

Satisfied by MUS 230.

Wellness Requirement

All students in associate degree programs must satisfy the wellness requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon Successful completion of this program, students will be able to:

1. Understand the principles of sound and acoustics, identify the necessary technology components for a recording session, successful use of software and hardware for audio recording and editing, apply microphone placement and technique, and understand signal flow and basic mixing concepts.
2. Apply advanced techniques and practices used in the recording industry, use advanced signal processing tools to manipulate audio, understand advanced mixing techniques, apply mastering techniques, and identify and troubleshoot common recording problems.
3. Accurately and authentically perform or create a musical composition using the skills acquired from Ensemble and Applied Music courses.
4. Analyze and create a musical composition using various analytical and composition techniques acquired from Music Theory & Ear Training and Music History courses.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Network Security (certificate)

Official Title of Major: Network Security, Certificate

Award: Certificate

Code: CRT.CIS.NET-SEC

Total Credit Hours: 16

Visit www.aacc.edu to learn more about the Cybersecurity, Networking and Digital Forensics Department

Purpose: Gain the skills and knowledge required to configure LAN and WAN networks and to understand the basics of network cybersecurity theory and operation. Acquire in-depth knowledge of TCP/IP, Cisco IOS and experience configuring Cisco routers and switches.

Related Industry Certifications

This program provides partial foundation for the following industry recognized certifications: Network+ (CompTIA), and Security+ (CompTIA) industry certification exams.

Range of Occupations

- Customer service technician
- Help desk technician
- Internet security specialist
- Internet systems administrator
- IT compliance specialist
- Network administrator
- Network analyst
- Network support technician
- Service center technician
- Technical writer

Additional Certificate Requirements

Students must satisfy the prerequisites for each course in the certificate or have permission from the department chair to take each course.

Entrance/Admission Requirements

Entrance Requirements

Students must satisfy the prerequisites for each course in the certificate or have permission of the academic chair to take each course.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 16 credits

- CTS 110 - Network Essentials *4 credit hours*
- CTS 140 - Network Security Fundamentals *4 credit hours*
- CTS 130 - Networking 1 *4 credit hours*
- CTS 131 - Networking 2 *4 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Effectively use Internet and Web technologies.
2. Design a network from scratch as well as maintain, upgrade, and troubleshoot an existing network.
3. Configure a router, manage Cisco IOS software, configure routing protocols on routers, and set the access lists to control the access to routers.
4. Identify the risks and threats to an organization's data and provide a structured way of addressing the safeguarding of these critical electronic assets.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Information Assurance and Cybersecurity (A.A.S.)
- Advanced Network Security (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Nursing (A.S.)

Special Admission Requirements

Deadline for spring application: August 30
Deadline for fall application: April 30

Official Title of Major: Nursing, A.S.

Award: Associate of Science degree, A.S.

Code: AS.NUR.RN

Total Credit Hours: A minimum of 70

Visit www.aacc.edu to learn more about the Nursing Degree program

Special Note on Revised Requirements

Purpose: For students who wish to complete formal education with an Associate of Science degree. Graduates of the nursing (RN) program are eligible to sit for the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The nursing program is accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN), 3390 Peachtree Road NE, Suite 1400, Atlanta, GA 30326 (**404-975-5000**) and approved by the Maryland Board of Nursing.

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Range of Occupations

- Registered Nurse (RN)

Additional Program Requirements

A grade of C or better in all NUR and all general education courses to progress in the program.

All nursing students must receive a mark of satisfactory in the clinical laboratory. Students who receive a mark of unsatisfactory in the clinical laboratory at any time during the nursing course sequence will not be permitted to continue in the clinical laboratory and will receive a final grade of F.

Special Conditions

Health Manpower Shortage: This program of study is designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's

responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to the Registered Nursing Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Recommended Course Sequence - Registered Nursing

Students must have a grade of C or better in all Registered Nursing courses and general education courses to progress in the program. General education courses may be taken prior to acceptance into the RN program except for BIO 231/BIO 233, ENG 101/101A, and MAT 135 or MAT 137 or higher, which must be taken prior to submitting application.

Term 1

- BIO 231 - Human Biology 1 4 credit hours
OR
- BIO 233 - Anatomy and Physiology 1 4 credit hours
Must be taken within 7 years of the date the application is submitted. BIO 101 is a prerequisite for BIO 233 and BIO 234

General Education Mathematics (MAT 135 - Statistics or MAT 137 - College Algebra or higher) 3 credit hours
Must be completed with a C or better prior to submitting application.

- ENG 101 - Academic Writing and Research 1 3 credit hours
OR
- ENG 101A - Academic Writing and Research 1 3 credit hours
ENG 101 or ENG 101A must be completed with a C or better prior to submitting application.

- PSY 111 - Introduction to Psychology 3 credit hours
- SOC 111 - Introduction to Sociology 3 credit hours
(satisfies the college diversity requirement)

Total credit hours: 16

Term 2

- BIO 232 - Human Biology 2 4 credit hours
Corequisite for NUR 120, NUR 121, and NUR 122
OR
- BIO 234 - Anatomy and Physiology 2 4 credit hours
BIO 232 and BIO 234 must be taken within 7 years of the date the application is submitted.
- NUR 120 - Foundations for Nursing 7 credit hours
- NUR 121 - Basic Physical Assessment 1 credit hour
- NUR 122 - Nursing Perspectives 1 1 credit hour

Total credit hours: 13

Term 3

- BIO 223 - General Microbiology 4 credit hours
BIO 223 must be taken within 7 years of the date the application is submitted.
- NUR 130 - Nursing of Adult Clients in Health and Illness 1 5 credit hours
- NUR 131 - Maternal, Newborn Nursing and Women's Health 4 credit hours
- PSY 211 - Developmental Psychology 3 credit hours
Prerequisite to NUR 221

Total credit hours: 16

Term 4

- NUR 220 - Nursing of Adult Clients in Health and Illness 2 5 credit hours
- **Arts and Humanities general education course** 3 credit hours
See General Education Arts and Humanities Requirements for a list of approved courses.
- NUR 221 - Nursing Care of Children and Families 4 credit hours

Total credit hours: 12

Term 5

- NUR 230 - Nursing Management of Clients with Complex Health Problems and Transition into Nursing 9 credit hours
- NUR 231 - Nursing Perspectives 2 1 credit hour
- **Arts and Humanities general education course** 3 credit hours
See General Education Arts and Humanities Requirements for a list of approved courses.

Total credit hours: 13

LPN, Paramedic, Veterans to RN Advanced Placement

Special Admission Requirements - Rolling*

**To view admission requirements, please go to the LPN, Paramedic, VA to RN Advanced Placement Admission Requirements page.*

AACC and the American Public University System (APUS) have created an accelerated, dual enrollment program that combines credential assessment, credit transfer and online education to enable qualified LPNs, Paramedics or Veterans admission into the second year of the Nursing program at AACC.

Prerequisites

All prerequisite courses must be completed with a grade of C or better with a minimum cumulative GPA of 2.5 (no rounding) by the date the application is submitted. All science courses must be taken within 10 years of the date the application is submitted.

- ENG 101 - Academic Writing and Research 1 3 credit hours
- **OR**
- ENG 101A - Academic Writing and Research 1 3 credit hours

- PSY 111 - Introduction to Psychology 3 credit hours
- General Education Mathematics (MAT 137 or higher) 3 credit hours
- BIO 231 - Human Biology 1 4 credit hours
Must be taken within 10 years of the date the application is submitted.
- BIO 232 - Human Biology 2 4 credit hours
Must be taken within 10 years of the date the application is submitted.
- **OR**
- BIO 233 - Anatomy and Physiology 1 4 credit hours
Must be taken within 10 years of the date the application is submitted. BIO 101 - Foundations of Biology: Molecules and Cells is a college prerequisite of BIO 233. Therefore, it will take three terms to complete this science sequence.
- BIO 234 - Anatomy and Physiology 2 4 credit hours
Must be taken within 10 years of the date the application is submitted.

- PSY 211 - Developmental Psychology 3 credit hours
Required prior to entering NUR 220.
- BIO 223 - General Microbiology 4 credit hours
Required prior to entering NUR 220 or NUR 221.

Recommended Course Sequence - LPN, Paramedic, Veterans to RN Advanced Placement

A grade of C or better in each Registered Nursing and general education course is required to progress in the program. General education courses may be taken prior to acceptance into the RN program. NURS 159 must be taken the semester prior to starting the nursing course sequence.

Term 1**

**NURS 159 Fundamentals, Adult and Childbearing Family Nursing Transition course - 6 credit hours
(APUS Course)*

- NUR 180 - LPN, Paramedic or Veteran to RN Transition 2 credit hours
- SOC 111 - Introduction to Sociology 3 credit hours

Total credit hours: 11

Term 2

- **Arts and humanities general education course** 3 credit hours
See General Education Arts and Humanities Requirements for a list of approved courses.
- NUR 220 - Nursing of Adult Clients in Health and Illness 2 5 credit hours

- NUR 221 - Nursing Care of Children and Families *4 credit hours*

Total credit hours: 12

Term 3

- **Arts and humanities general education course** *3 credit hours*
See General Education Arts and Humanities Requirements for a list of approved courses.
- NUR 230 - Nursing Management of Clients with Complex Health Problems and Transition into Nursing *9 credit hours*
- NUR 231 - Nursing Perspectives 2 *1 credit hour*

Total credit hours: 13

*About NURS 159

NURS 159 is a 6-credit, online, 16-week course through the American Public University System (APUS). AACC will notify APUS of selected students. APUS will then contact student to set up registration. Once student's registration is confirmed the student will receive information regarding the required books that will be needed for the course. Tuition for NURS 159 is \$270 per credit hour plus a \$50 technology fee. Veterans educational benefits are accepted. Once the course is successfully completed the student will request an official transcript be sent to AACC to continue to Term 2.

** For Veterans - Term 1 is not considered Full-Time by the US Department of Veterans Affairs, therefore benefits will be prorated.

Additional Admission Requirements

LPN Training

Official transcript from LPN training must be submitted to verify successful completion of LPN training from a state-approved licensed practical nursing program.

Clinical Experience

The following material must be submitted to continue the application process:

- Official transcript from a state-approved licensed practical nursing program.
- Copy of current active Maryland LPN license. LPNs must have an active unencumbered Maryland license in agreement with the Maryland Board of Nursing and the Maryland Higher Education Commission.
- Verification of current employment as an LPN for a minimum full-time equivalent (2080 hours) of one year within the last three calendar years.
- Submission of Clinical Experience Form.
- Submission of Work Performance Evaluation.

Paramedics

Official transcript from Paramedic training must be submitted to verify successful completion of Paramedic training from a state-approved licensed paramedic program.

Clinical Experience

The following material must be submitted to continue the application process.

- Official transcript from a state-approved licensed paramedic program.
- Copy of an active Maryland Paramedic license. Paramedics must have an active unencumbered Maryland license from the Maryland Institute for Emergency Medical Services Systems.
- Verification of current employment as a Paramedic for a minimum full-time equivalent (2080 hours) of one year within the last three calendar years.

- Submission of Clinical Experience Form.
- Submission of Work Performance Evaluation.

Veterans

Clinical Experience

- Applicants must be a Medic/Corpsman to qualify for this program with at least one year of experience within the last three calendar years.
- Submit a copy of your DD-214 (Certification of Release or Discharge from Active Duty) as verification of your required medical service.

Diversity Requirement

Satisfied by completion of SOC 111.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Utilize the 5 steps of the nursing process to determine and provide nursing care that is holistic, systematic, evidence-based, safe and grounded in understanding of the sciences, humanities, cultural diversity and nursing theory (Care Provider).
2. Analyze data, question assumptions and approach all clients with a curiosity resulting in safe clinical decisions that improve quality of care (Investigator).
3. Implement one's role as a professional in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse (Professional).
4. Collaborate with clients, families and the health care team to provide coordinated care that is holistic, safe and individualized for multiple clients in diverse health care settings (Collaborator).
5. Utilize teaching and learning strategies to promote knowledge that optimizes decisions related to health and wellness for clients, families, peers and the community (Educator).
6. Utilize professional and therapeutic communication strategies with clients, families and the health care team to promote positive client outcomes (Communicator).

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Arts and Sciences Transfer - Nursing Transfer (A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Office Applications Specialist (lor)

Official Title of Letter of Recognition: Office Applications Specialist, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: 8

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: Provides office staff and technical and non-technical professional personnel an opportunity to develop a comprehensive foundation in the use of computers to produce solutions to word processing, spreadsheet and database management problems.

Introduces students to comprehensive use of major software applications packages. Emphasis is on using word processing, spreadsheet and database management software to address typical office applications. With this letter of recognition, students have a choice of learning comprehensive software in two of the three areas: word processing, spreadsheet or database management.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Entrance/Admission Requirements

Entrance Requirements

Students must have a strong computer background or permission of the Microsoft Office Specialist (MOS)/Applications coordinator.

Degree/Award Requirements

Award Requirements

Students must complete each of the required CTA, CTP or CTS courses with a grade of C or better. Students must apply to the Records and Registration office for the letter of recognition after they have completed the requirements.

Requirements: 8 credits

Select two courses from the list below:

- CTA 111 - Personal Computer Word Processing Applications *4 credit hours*
- CTA 115 - Personal Computer Database Management Systems *4 credit hours*
- CTA 116 - Personal Computer Spreadsheet Applications *4 credit hours*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Paralegal Studies (A.A.S.)

Official Title of Major: Paralegal Studies, A.A.S.

Award: Associate of Applied Science degree, A.A.S

Code: AAS.PARA-STUDIES

Total credit hours: 60

Visit www.aacc.edu to learn more about the Legal Studies Institute

American Bar Association approved.

Purpose: This American Bar Association-approved program prepares students for employment in the paralegal field or to meet the requirements for promotion and/or additional career responsibility. Paralegal courses are taught by judges, practicing attorneys, and experts in the field, with an emphasis on practical applications. Employment projections suggest that the paralegal field will be one of

the fastest-growing careers during the next several years. Students may enroll in either full-or part-time courses that are offered in day, evening, online, and weekend formats.

Range of Occupations

- Court administrative assistant
- Court clerk
- Law office manager
- Legal assistant
- Litigation paralegal
- Personal injury paralegal
- Medical malpractice paralegal
- Mediator
- Family law paralegal
- Paralegal for the State's Attorney and/or Public Defender
- Victim advocate

Note: Paralegals may not provide legal services to the public except as permitted by law.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

General Education Requirements: 22 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*

ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- LGS 271 - Civil Rights Law 3 credit hours
LGS 271 will also satisfy the diversity requirement.

Biological and Physical Sciences: 4 credits

One laboratory science course required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

- MAT 100 - The Nature of Mathematics 3 credit hours
Or more advanced level if qualified. Due to a variety of transfer requirements at four-year schools, students should consult with an advisor or refer to the math department listed by their transfer school before choosing a math course.

Social and Behavioral Sciences: 3 credits

Refer to General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirements: 3 credits

- **Wellness Requirement** 3 credit hours
Refer to General Education Wellness Requirements for a list of approved courses.

Program Requirements: 38 credits

- LGS 111 - Introduction to Paralegal Studies 3 credit hours
- LGS 112 - Law Office Practice and Technology 3 credit hours
- LGS 141 - Electronic Legal Research 1 credit hour
- LGS 143 - Legal Research and Writing 1 3 credit hours
- LGS 144 - Legal Research and Writing 2 3 credit hours
- LGS 170 - Civil Procedure 3 credit hours
- LGS 210 - Legal Ethics 3 credit hours
- LGS 215 - Criminal Law 3 credit hours
- LGS 253 - Business Law 1 3 credit hours

Choose one of the following:

- LGS 160 - Domestic Relations 3 credit hours
OR
- LGS 171 - Tort Law 3 credit hours

Electives (consult with an advisor and/or paralegal studies) 10 credit hours *Students must have a minimum of 9 credits of legal specialty electives, which excludes the following courses: LGS 100, LGS 156, LGS 217, LGS 218, LGS 225, LGS 232, LGS 250, LGS 270 and LGS 271. Students may choose a one-credit general elective in order to achieve the 60 credits needed for graduation. Refer to suggested electives below. Suggested electives are based on student interest in a particular area of law.*

Suggested electives for each practice area:

Civil:

LGS 160 (if not used to satisfy a program requirement above)

LGS 171 (if not used to satisfy a program requirement above)

LGS 220
LGS 230
Criminal:
LGS 205
LGS 216
Domestic:
LGS 165
LGS 235
Transactional:
LGS 200
LGS 235
LGS 236
LGS 254
LGS 260

Diversity Requirement

Satisfied by LGS 271.

Technology Requirement

Satisfied by LGS 112.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Explain basic legal concepts, issues and terminology in subject matter areas that are essential to the practice of law.
2. Apply critical thinking skills to identify, analyze, and interpret legal and factual issues and effectively interface with clients and attorneys.
3. Demonstrate effective legal research, writing, and oral communication skills.
4. Apply general principles of ethical and professional responsibility to the role of paralegals and attorneys in the practice of law.
5. Apply practical legal skills and legal theory to assist attorneys in the practice of law.

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Paralegal Studies (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Paralegal Studies (certificate)

Official Title of Certificate: Paralegal Studies, Certificate

Award: Certificate

Code: CRT.PARA-STUDIES

Total Credit Hours: 31 credit hours

Visit www.aacc.edu to learn more about the Legal Studies Institute

Purpose: Basic information is presented to prepare students for employment in the paralegal field or to meet the requirements of persons already employed in the paralegal field who wish to obtain college credit and move into more advanced supervisory positions. Students may pursue the certificate program on a full- or part-time basis and courses are offered in day, evening and weekend and accelerated formats.

Range of Occupations

- Administrative assistant
- Court administrative assistant
- Court clerk
- Law office manager
- Legal assistant
- Legislative legal assistant
- Real estate settlement officer
- Victim advocate

Note: Paralegals may not provide legal services to the public except as permitted by law.

Additional Program Requirements

Verification by the college that the student obtained a bachelor's degree or associate's degree prior to enrollment in the Paralegal Studies certificate program.

Entrance Requirements

Students entering the Paralegal Studies certificate program must hold prior to enrollment either a bachelor's degree or an associate's degree from a regionally accredited college or university whose program included at least 18 hours of general education courses, including ENG 101 and ENG 102, as well as courses in at least two other disciplines, such as social sciences, natural sciences, mathematics, humanities and foreign language. Students are required to forward to the college prior to enrollment an official transcript from the institution where their bachelor's degree or associate degree was obtained.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Program Requirements: 31 credits

- LGS 111 - Introduction to Paralegal Studies 3 credit hours
- LGS 112 - Law Office Practice and Technology 3 credit hours
- LGS 141 - Electronic Legal Research 1 credit hour
- LGS 143 - Legal Research and Writing 1 3 credit hours
- LGS 144 - Legal Research and Writing 2 3 credit hours
- LGS 170 - Civil Procedure 3 credit hours
- LGS 210 - Legal Ethics 3 credit hours
- LGS 215 - Criminal Law 3 credit hours
- LGS 253 - Business Law 1 3 credit hours

Electives (consult with an advisor and/or paralegal studies): 6 credits

*Students must have 6 credits of legal specialty electives, which **excludes** the following courses: LGS 100, LGS 156, LGS 217, LGS 225, LGS 232, LGS 250, LGS 270 and LGS 271. See the suggested electives below. Suggested electives are based on student interest in a particular area of law.*

Suggested electives for each practice area:

Civil:

LGS 160
LGS 171
LGS 220
LGS 230

Criminal:

LGS 205
LGS 216

Domestic:

LGS 165
LGS 235
LGS 281

Transactional:

LGS 200
LGS 235
LGS 236
LGS 254
LGS 260
LGS 281

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Explain basic legal concepts, issues, and terminology in subject matter areas that are essential to the practice of law.
2. Apply critical thinking skills to identify, analyze, and interpret legal and factual issues and effectively interface with clients and attorneys.
3. Strengthen legal research, writing, and oral communication skills.
4. Apply general principles of ethical and professional responsibility to the role of paralegals and attorneys in the practice of law.
5. Apply practical legal skills and legal theory to assist attorneys in the practice of law.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Paralegal Studies (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Pathway to Teaching Adults (lor)

Official Title of Letter of Recognition: Pathway to Teaching Adults, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: A minimum of 6

Purpose: This letter of recognition is appropriate for those individuals working with adult learners. The courses contained in this letter of recognition will increase the breadth and depth of skills and knowledge related to successful teaching and learning. Enhanced instructional effectiveness will maximize quality teaching and promote student success.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Degree/Award Requirements

Degree Requirements

Demonstrated eligibility for ENG 101/ENG 101A. Completion of each of the required courses with a grade of C or better.

Award Requirements

Students must apply to the Records and Registration office for the letter of recognition after they have completed the requirements.

Requirements: 6 credits

- EDU 210 - Teaching the Adult Learner *1 credit hour*
- EDU 213 - Strategies for Teaching Adults with Diverse Needs *1 credit hour*
- EDU 219 - Assessing the Adult Learner *1 credit hour*

Electives (must complete 3 to earn Letter of Recognition)

- EDU 209 - Online Instructional Methods *1 credit hour*
- EDU 212 - Engaging and Supporting Students *1 credit hour*
- EDU 216 - Technology for Educators *1 credit hour*
- EDU 217 - Energizing Your Presentations *1 credit hour*
- EDU 220 - Innovation in Education *1 credit hour*
- EDU 230 - Educator Portfolio Development *1 credit hour*
- EDU 236 - Culturally Responsive Instruction *1 credit hour*
- EDU 271 - Management Strategies in the Classroom *1 credit hour*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Identify the characteristics of adult learners
2. Discuss pedagogical techniques to facilitate successful learning for adult learners
3. Design assessments for use with adult learners
4. Identify strategies for teaching adults with diverse needs

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Personal Trainer (certificate)

Official Title of Certificate: Personal Trainer, Certificate

Award: Certificate

Code: CRT.HEA.PER-TRAIN

Total Credit Hours: 17

Visit www.aacc.edu to learn more about the Personal Trainer Certificate Program

Purpose: The certificate is designed to provide a background in basic exercise principles, health screening, fitness assessments, nutrition, behavior change, communication and exercise program design within the current fitness industry standards. Hands-on experience will be integrated into the program.

A certificate in Personal Training provides students with the competencies necessary to become an effective entry-level professional. The curriculum provides coursework and experience that prepares the student to sit for many nationally recognized personal trainer and health coach certifications.

This certificate will provide the foundation of courses for those interested in advancing to receive an Associate of Science Degree in Health, Fitness and Exercise Studies at Anne Arundel Community College.

Additional Certificate Requirements

Completion of the required courses with a grade of C or better in each course.

Range of Occupations

- Personal trainer
- Fitness specialist for corporate, commercial, private, municipal and community facilities
- Health coach

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 17 credits

Course Requirements

- HEA 100 - Assessment and Theory of Fitness and Health 3 *credit hours*
- HEA 101 - Foundations of Health, Exercise and Sport 3 *credit hours*

- HEA 138 - Nutrition for Fitness and Sport *1 credit hour* **OR**
- BIO 138 - Nutrition for Fitness and Sport *1 credit hour*
OR
- HEA 137 - Weight Management: Utilizing Healthy Approaches to Diet and Physical Activity *1 credit hour* **OR**
- BIO 137 - Weight Management: Utilizing Healthy Approaches to Diet and Physical Activity *1 credit hour*
- HEA 150 - Advanced First Aid, CPR and AED *3 credit hours*
- HEA 230 - Personal Trainer Fundamentals *4 credit hours*

Program Electives: 3 credits

- BIO 135 - Principles of Nutrition *3 credit hours*
OR
- ESI 103 - Introduction to Entrepreneurship *3 credit hours*
OR
- HEA 231 - Health Coach *3 credit hours*
OR
- HEA 295 - Care and Prevention of Athletic Injuries *3 credit hours*
OR
- SPT 232 - Sport Psychology *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Design and instruct an individualized exercise programs for healthy adults and special populations.
2. Apply national fitness and nutritional guidelines in order to customize behavior-change programs based on client needs.
3. Apply legal and ethical issues and professional responsibilities within their scope of practice.
4. Demonstrate basic injury prevention techniques.
5. Perform first aid and basic life support procedures when appropriate.
6. Assess cardiorespiratory capacity, muscular strength, muscular endurance fitness, flexibility and body composition.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Personal Trainer (lor)

Official Title of Letter of Recognition: Personal Trainer, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: 9

Purpose: The letter of recognition is a cluster of courses appropriate for individuals currently in the fitness industry who wish to improve their knowledge base and/or are seeking to be more marketable as a personal trainer.

Range of Occupations

- Personal trainer
- Health fitness specialist

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Degree/Award Requirements

Degree Requirements

Students must present current adult CPR/AED certification in order to be awarded the personal trainer letter of recognition.

Award Requirements

Students apply in person, to the Records and Registration office for the letter of recognition after they complete the program requirements.

Requirements: 9 credits

- HEA 100 - Assessment and Theory of Fitness and Health *3 credit hours*
- HEA 137 - Weight Management: Utilizing Healthy Approaches to Diet and Physical Activity *1 credit hour* **OR**
- BIO 137 - Weight Management: Utilizing Healthy Approaches to Diet and Physical Activity *1 credit hour*
- HEA 138 - Nutrition for Fitness and Sport *1 credit hour* **OR**
- BIO 138 - Nutrition for Fitness and Sport *1 credit hour*
- HEA 230 - Personal Trainer Fundamentals *4 credit hours*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Phlebotomy Technician (lor)

Special Admission Requirements - Rolling Admission

Official Title of Letter of Recognition: Phlebotomy Technician, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: 12

Purpose: Prepares students for entry level employment in multiple health care settings, such as hospitals, outpatient clinics or satellite phlebotomy centers. The program includes lecture, college lab and 100 consecutive hours of clinical practicum. There is an additional emphasis on medical terminology, therapeutic communications, and attributes of professionalism in the health care setting.

Range of Occupations

- Phlebotomist

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to the Phlebotomy Technician Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Degree/Award Requirements

Degree Requirements

Completion of the required courses with a grade of C or better.

Award Requirements

Students must apply to the Records and Registration office for the letter of recognition after they complete the program requirements.

Requirements: 12 credits

- MDA 100 - Introduction to Medical Terminology *1 credit hour*
- MDA 110 - Professionalism in Health Care *1 credit hours*
- MLT 103 - Entry Level Clinical Laboratory Testing *4 credits*
- MLT 125 - Phlebotomy *4 credit hours*
- MLT 275 - Phlebotomy Practicum *2 credit hours*

Phlebotomy Technician (lor) for Medical Laboratory Technician Students

Medical Laboratory Technician degree seeking students who successfully complete the following courses with a grade of C or better qualify for the Phlebotomy Technician (LOR):

- MLT 100 - Introduction to the Medical Laboratory *4 credit hours*
- MLT 101 - Urinalysis and Body Fluids *3 credit hours*
- MLT 102 - Quality Assurance and Quality Control *1 credit hour*
- MLT 275 - Phlebotomy Practicum *2 credit hours*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Photography (certificate)

Official Title of Certificate: Photography, Certificate

Award: Certificate

Code: CRT.VSL.PHOTOGRAPHY

Total Credit Hours: A minimum of 22

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Purpose: The photography certificate is offered for students who desire a concentrated introduction to photography for career purposes or personal enrichment.

The courses develop an individual's skills in photographic production and technique as well as darkroom and studio procedures. Students will become familiar with the camera operation, studio lighting as well as digital and analog printing methods.

Range of Occupations

- Editorial Photographer
- Fine Art Photographer
- Commercial Photographer
- Photographic assistant

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 22 credits

- ART 120 - Digital Photography 1 *3 credit hours*
- ART 121 - Darkroom Photography 1: Black & White *3 credit hours*
- ART 212 - History of Photography *3 credit hours*
- ART 231 - Photography Portfolio Development *1 credit hour*
- ART 236 - Digital Photography 2 *3 credit hours*
- ART 239 - Techniques of Photographic Lighting *3 credit hours*

Choose two of the following courses: 6 credits

- ART 122 - Color Photography *3 credit hours*
- ART 237 - Photojournalism *3 credit hours*
- ART 238 - Alternative Photographic Process *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Communicate effectively in verbal, nonverbal and written forms.
- Use appropriate technology that supports or facilitates communication.
- Collect, organize, compute and interpret quantitative and qualitative data and/or information.
- Apply mathematics, science and technology to make decisions.
- Apply critical thinking skills to solve problems using basic research, analysis and interpretation.
- Identify, locate and use informational tools for research on alternative, historical and photojournalistic processes.
- Apply ethical and cultural awareness, an understanding of cultural diversity, and effective and appropriate modes of social interaction to the practice of photography.
- Apply knowledge of safety practices and regulations in the labs.

This program aligns with college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Transfer - Photography (A.A.)
- Graphic Design (certificate)
- Media Production (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Physical Therapist Assistant (A.A.S.)

*Special Admission Requirements - Program Application Deadline: April 30**

Official Title of Major: Physical Therapist Assistant, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.PTA.PTA

Total Credit Hours: A minimum of 70

Visit www.aacc.edu to learn more about the Physical Therapist Assistant Degree program

Purpose: Prepares students to provide physical therapy services according to the plan of care developed by the physical therapist. The physical therapist assistant (PTA) administers direct patient care; teaches patients, families and other health care providers how to perform selected interventions; and provides desired psychosocial support to patients and their families. Physical therapist assistants are employed primarily in hospitals, rehabilitation centers, private practice, extended-care facilities and home health care settings. Graduates are eligible to take the National Licensing Examination for Physical Therapist Assistants. The CACHE Physical Therapist Assistant program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Avenue, Suite 100, Alexandria, Virginia 22305; telephone: **703-706-3245**; email: accreditation@apta.org; website www.capteonline.org.

The Physical Therapist Assistant program is administered by the Chesapeake Area Consortium for Higher Education (CACHE). Members of the consortium include Anne Arundel, Chesapeake College and the College of Southern Maryland. Students will complete their professional training at Anne Arundel Community College and their clinical practice rotations at local service areas when possible. Distance learning will be used as appropriate.

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Additional Program Requirements

A grade of C or better in each physical therapist assistant and general education course is required to progress in the program. Students are expected to practice selected procedures on each other in the college laboratory.

Range of Occupations

- Physical therapist assistant (PTA)

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the

student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

**If application deadline falls on a weekend, then applications will be accepted until the close of business on the next business day.*

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to the Physical Therapist Assistant Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Physical Therapist Assistant Course Sequence

All general education and physical therapist assistant courses must be completed with a grade of C or better and completed no later than what is listed in the required course sequence.

Program Requirements

First Year - Fall Term

- BIO 231 - Human Biology 1 4 credit hours **OR**
- BIO 233 - Anatomy and Physiology 1 4 credit hours
BIO 101 is a prerequisite for BIO 233.
- ENG 101 - Academic Writing and Research 1 3 credit hours **OR**
- ENG 101A - Academic Writing and Research 1 3 credit hours
- MAT 137 - College Algebra 3 credit hours
*MAT 145, MAT 151, MAT 191, or MAT 230 satisfies the MAT 137 requirement
(Former MAT courses: MAT 121, MAT 131, MAT 141, or MAT 142 will also satisfy the MAT 137 requirement.)*
- PSY 111 - Introduction to Psychology 3 credit hours

- PTA 101 - Introduction to Physical Therapist Assistant 3 *credit hours*

Total credit hours: 16

First Year - Spring Term

- BIO 232 - Human Biology 2 4 *credit hours* **OR**
- BIO 234 - Anatomy and Physiology 2 4 *credit hours*
- PTA 102 - Physical Therapist Assistant 1 6 *credit hours*
- PTA 106 - Kinesiology 6 *credit hours*

Total credit hours: 16

First Year - Summer Term

- PSY 211 - Developmental Psychology 3 *credit hours*
- PTA 104 - Physical Therapist Assistant 2 6 *credit hours*
- PTA 105 - Clinical Practice 1 2 *credit hours*

Total credit hours: 11

Second Year - Fall Term

- PTA 201 - Physical Therapist Assistant 3 4 *credit hours*
- PTA 202 - Physical Therapist Assistant 4 4 *credit hours*
- PTA 203 - Clinical Practice 2 4 *credit hours*

Arts and humanities: 3 credits

See General Education Arts and Humanities Requirements for a list of approved courses.

Total credit hours: 15

Second Year - Spring Term

- PTA 204 - Physical Therapist Assistant 5 3 *credit hours*
- PTA 205 - Current Issues and Trends Affecting the Physical Therapist Assistant 1 *credit hour*
- PTA 206 - Clinical Practice 3 4 *credit hours*
- PTA 207 - Clinical Practice 4 4 *credit hours*

Total credit hours: 12

Diversity Requirement

Completion of the Physical Therapist Assistant Program satisfies the college's diversity requirements.

Technology Requirement

Completion of the Physical Therapist Assistant Program satisfies the college's technology requirements.

Wellness Requirement

Completion of the Physical Therapist Assistant Program satisfies the college's wellness requirements.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Assist a physical therapist in the delivery of selected interventions in an ethical, legal, safe and effective manner under the direction and supervision of a physical therapist, consistent with the standards of practice of the profession.
2. Use critical thinking and problem solving skills to perform data collection, conduct tests and measures, and implement outcome-oriented interventions, within the plan of care developed by the physical therapist.
3. Teach patients, families and other health care providers selected treatment interventions and participate in discharge planning under the direction and supervision of a physical therapist.
4. Provide psychosocial support to patients and families.
5. Utilize effective communication skills when interacting with patients, families and other interprofessional team members.
6. Be prepared to take the National Physical Therapy Examination for Physical Therapist Assistants.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Practical Nursing (certificate)

*Special Admission Requirements - Program Application Deadline: Jan. 30**

Official Title of Certificate: Practical Nursing, Certificate

Award: Certificate

Code: CRT.NUR.PRAC-NRSG

Total Credit Hours: A minimum of 41

Visit www.aacc.edu to learn more about the Practical Nursing Certificate program

Purpose: For students who wish to complete formal education with a certificate. Graduates of the Practical Nursing (PN) program are eligible to sit for the National Council Licensure Examination for Practical Nurses (NCLEX-PN). The Practical Nursing program is approved by the Maryland Board of Nursing.

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Range of Occupations

- Practical Nurse (PN)

Additional Certificate Requirements

All nursing students must receive: (1) a minimum grade of C in each nursing course; and (2) a mark of satisfactory in the clinical laboratory. Students who receive a mark of unsatisfactory in the clinical laboratory at any time during the nursing course sequence will not be permitted to continue in the clinical laboratory and will receive a final grade of F.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the

student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

**If application deadline falls on a weekend, then applications will be accepted until the close of business on the next business day.*

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to the Practical Nursing Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Practical Nursing Course Sequence

(one academic year)

Prerequisites

All prerequisites, general education and nursing courses require a grade of C or better.

- BIO 231 - Human Biology 1 4 credit hours **AND**
- BIO 232 - Human Biology 2 4 credit hours
- **OR**
- BIO 233 - Anatomy and Physiology 1 4 credit hours **AND**
- BIO 234 - Anatomy and Physiology 2 4 credit hours
- *BIO 101 is a prerequisite for BIO 233-BIO 234.*
- PSY 111 - Introduction to Psychology 3 credit hours

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Total credit hours: 14

Certificate Requirements

Term 1 - Summer

- LPN 180 - Fundamentals of Practical Nursing 8 credit hours

Total credit hours: 8

Term 2 - Fall

- LPN 193 - Adult and Child Health Concepts in Practical Nursing *10 credit hours*

Total credit hours: 10

Term 3 - Spring

- LPN 194 - Women, Newborns, Mental Health and Integration of Concepts in Practical Nursing *9 credit hours*

Total credit hours: 9

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate accountability for maintaining the standards of practice to include holistic client care across the settings, legal/ethical behaviors and life-long learning in concert with the Maryland Nurse Practice Act.
- Utilize appropriate and therapeutic verbal and written communication to promote positive client outcomes.
- Assess holistically and systematically the health status of individuals, families and communities to determine health care needs in a team relationship.
- Utilize critical thinking within the framework of the five steps of the nursing process to ensure the delivery of safe, accurate care.
- Provide nursing care based on the global understanding of the sciences, humanities, nursing theory, research and personal experience that is holistic, culturally relevant and maintains the client's rights and dignity.
- Identify learning needs of clients and in a team relationship develops plans and implements relevant teaching to assist the client in achieving his/her health goals.
- Collaborate with clients, families, and other members of the health care team to ensure holistic, individualized care with appropriate allocation of human and material resources across the health care continuum.
- Coordinate through direct intervention and delegation of care to unlicensed individuals the safe and accurate care of multiple clients in diverse health care settings.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Production Design (certificate)

Official Title of Certificate: Production Design, Certificate

Award: Certificate

Code: CRT.PROD.DSGN

Total Credit Hours: 31

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Visit www.aacc.edu to learn more about the Architecture and Interior Design Department

Purpose: Prepares students in the field of Performing Arts or Interior Design by developing essential skills required in the workforce. Provides an intensive focus in theatrical productions supported by the interior design foundation principles and elements with an understanding of historical accuracy in production design. Develops CAD skills used in set design and construction documents. Advances knowledge through the cross-curriculum study of Interior Design and Theater Arts while offering a specialized career path and/or builds on an existing certificate or degree.

Range of Occupations:

- Set designer for theater
- Stage manger
- Set designer for multi-media
- Film set designer
- Retail display, etc.
- Convention display and production
- Kiosk design
- Theatrical Lighting Designer
- Decorative Arts Consultant
- Draftsman

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 31 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
- ACH 100 - Introduction to Interior Design 1 *credit hour*
- ACH 111 - Graphic Communication 1: Composition and Delineation 3 *credit hours*
- ACH 201 - History of Interior Design 3 *credit hours*
- ACH 245 - Digital Technologies 1 3 *credit hours*
- CTA 100 - Computing and Information Technology 3 *credit hours*
- THA 121 - Stagecraft 3 *credit hours*
- THA 122 - Introduction to Stage Design and Lighting 3 *credit hours*
- THA 125 - Script Analysis 3 *credit hours*
- THA 180 - Play Production 3 *credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Apply visual design principles and practical production skills to facilitate successful live stage performances.
2. Use appropriate technology to communicate efficiently and effectively.
3. Respond to the challenges of designing for live performance while working within a given resource budget.
4. Design accurate visual structures by evaluating written materials.
5. Document concepts through hand drafting and computer generated working drawings.
6. Use lighting effectively.
7. Complete historically accurate design production in time restrictive circumstances.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Professional Bookkeeper (certificate)

Official Title of Certificate: Professional Bookkeeper, Certificate

Award: Certificate

Code: CRT.BPA.PROF-BKKP

Total Credit Hours: 18

Visit www.aacc.edu to learn more about the Business Administration Department

Purpose: This program provides the knowledge and skills required of a full-charge bookkeeper. It prepares the student to take the Professional Bookkeeper Certification Examination. Because the program is carefully tailored to job-related skills, the student can complete it in two terms.

Additional Certificate Requirements

Completion of each of the required courses with a grade of C or better.

Range of Occupations

- Full-charge bookkeeper
- Accounting clerk
- Audit clerk

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18 credits

- BPA 201 - Financial Accounting 3 *credit hours*
Successful completion of both BPA 100 and BPA 101 satisfies the requirement for BPA 201 and BPA elective.
- BPA 202 - Managerial Accounting 3 *credit hours*
- BPA 214 - Professional Bookkeeper Keystone 3 *credit hours*
- BPA 217 - Small Business Accounting 3 *credit hours*
- BPA 241 - Intermediate Accounting 1 3 *credit hours*
- Business elective (approval of department chair) 3 *credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Perform the basic functions to complete the accounting cycle.
2. Analyze financial statements and identify trends.
3. Perform the basic accounting functions utilizing computer applications.
4. Examine internal financial data to improve and enhance decision making.
5. Examine internal operations to determine the appropriate level of control.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Public Health Professions - Public Health (A.S.)

Official Title of Major: Public Health Professions - Public Health, A.S.

Award: Associate of Science degree, A.S.

Code: AS.PBH.PUBLIC-HEA

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Public Health Professions Degree program

Purpose: Public health is the science of protecting and improving the *health* of people and their communities. Public health professionals work to promote healthy lifestyles, research disease and injury prevention, and detecting, preventing and responding to infectious disease. The Public Health Professions Program is for students who wish to pursue career options in health education, health promotion, community health, patient navigation, epidemiology or other related health profession pathways. Students may transfer to a four-year institution to continue their studies in community health or gain personal enrichment.

Additional Program Requirements

A grade of C or better in all Public Health Professions courses is required to progress in the program. Please note this program requires completion of a service learning project (PBH 203).

Range of Occupations

- Health educator
- Health promotion specialist
- Community health worker
- Community health program coordinator
- Workplace health and wellness
- Patient navigator in hospital or clinic setting

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 35 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

Select one Arts and Humanities general education course

AND

- COM 101 - Introduction to Mass Media 3 *credit hours* **OR**
- COM 110 - Introduction to Interpersonal Communication 3 *credit hours* **OR**
- COM 111 - Fundamentals of Oral Communication 3 *credit hours* **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 *credit hours* **OR**
- COM 141 - Group Communication and Leadership 3 *credit hours*

Biological and Physical Sciences: 8 credits

- BIO 101 - Foundations of Biology: Molecules and Cells 4 *credit hours*
- BIO 233 - Anatomy and Physiology 1 4 *credit hours*

Mathematics: 3 credits

- MAT 135 - Statistics 3 *credit hours*

Social and Behavioral Sciences: 6 credits

Select one Social and Behavioral general education course

AND

- PSY 111 - Introduction to Psychology 3 *credit hours*

Additional General Education Requirements: 6 credits

- CTA 100 - Computing and Information Technology 3 *credit hours*
AND
- HEA 111 - Personal and Community Health 3 *credit hours*

Program Requirements: 25 credits

- PBH 101 - Introduction to Public Health 3 *credit hours*
- PBH 102 - Introduction to Epidemiology 3 *credit hours*
- PBH 105 - Essentials of Health Behavior 3 *credit hours*
- PBH 201 - Global Health 3 *credit hours*
- PBH 202 - Emerging Public Health Issues 3 *credit hours*
- PBH 203 - Health Education Promotion 3 *credit hours*

Service learning component

Choose 7 credits from the courses below:

- EMT 104 - Emergency Medical Care, CPR & AED 3 credit hours
- HEA 113 - Women's Health 3 credit hours
- MDA 113 - Medical Terminology 3 credit hours
- PSY 216 - Human Sexuality 3 credit hours
- SOC 265 - Social Research Methods 3 credit hours
- HEA 137 - Weight Management: Utilizing Healthy Approaches to Diet and Physical Activity 1 credit hour
- BIO 234 - Anatomy and Physiology 2 4 credit hours

Diversity Requirement

Students may satisfy the diversity requirement simultaneously as they satisfy the arts and humanities, social and behavioral sciences or through PBH elective HEA 113.

Technology Requirement

Satisfied by CTA 100.

Wellness Requirement

Satisfied by HEA 111.

Fast Track

This program has a Fast Track Option for those holding a college degree.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Describe the fundamental tenets of epidemiology as applied to public health.
2. Discuss Healthy People in relation to public health planning.
3. Delineate the specific professions and contributions to the public health model.
4. Analyze health statistics related to targeting unhealthy behaviors and planning strategies for improvement.
5. Analyze behaviorist theory in relation to the development of health betterment planning.
6. Develop basic strategies for health improvement.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Radiologic Technology (A.A.S.)

*Special Admission Requirements - Program Application Deadline: April 30 **

Official Title of Major: Radiologic Technology, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.RAD.RAD

Total Credit Hours: A minimum of 69 credit hours; seven terms (includes general education and prerequisite requirements).

Visit www.aacc.edu to learn more about the Radiologic Technology Degree program

Purpose: Prepares students for employment as entry-level radiographers in hospitals, medical and specialty offices, imaging centers, clinics and other health care agencies. Trains graduates in radiographic positioning and procedures, medical imaging techniques, image processing and other X-ray related competency development areas. Prepares graduates for the American Registry of Radiologic Technologists certification examination. Enrollment limited by availability of clinical sites. The Radiologic Technology program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The maximum eight-year accreditation award was granted to the program in 2017 and is scheduled for a re-accreditation review process in February 2025. To Refer to www.aacc.edu to learn more Visit www.aacc.edu to learn more about the importance of JRCERT accreditation please click the following link: <https://www.jrcert.org/about-accreditation/> . The curriculum contains a transfer option for students who elect to continue beyond the A.A.S. degree.

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Range of Occupations

- Radiographer (Registered Technologist)

Additional Program Requirements

All radiologic technology students must receive a minimum grade of C in each radiology course.

Special Conditions

Health Manpower Shortage: This program of study may be designated a Health Manpower Shortage Tuition Reduction Program. This means that some residents of Maryland (see the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Health Manpower Shortage Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

**If application deadline falls on a weekend, then applications will be accepted until the close of business on the next business day.*

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to the Radiologic Technology Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Radiologic Technology Course Sequence

All Radiologic Technology courses require a grade of C or better.

Prerequisites

All six prerequisite courses must be completed with a grade of C or better with a minimum cumulative prerequisite GPA of 3.0 (no rounding) by the end of the spring term in which you are submitting your application.

- BIO 231 - Human Biology 1 4 credit hours **AND**
- BIO 232 - Human Biology 2 4 credit hours
- **OR**
- BIO 101 - Foundations of Biology: Molecules and Cells 4 credit hours **AND**
- BIO 233 - Anatomy and Physiology 1 4 credit hours **AND**
- BIO 234 - Anatomy and Physiology 2 4 credit hours
- MAT 137 - College Algebra 3 credit hours
MAT 145, MAT 151, MAT 191, or MAT 230 satisfies the MAT 137 requirement.
(Former MAT courses: MAT 121, MAT 131, MAT 141, or MAT 142 will also satisfy the MAT 137 requirement.)
- SOC 111 - Introduction to Sociology 3 credit hours

Arts and Humanities: 3 credits

- COM 111 - Fundamentals of Oral Communication 3 credit hours
- **OR**
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 credit hours

English: 3 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours
- **OR**
- ENG 101A - Academic Writing and Research 1 3 credit hours
ENG 101A and ENG 101 are equivalent courses.

Total credit hours: 20-24

Program Requirements

First Year - Term 1

- RAD 110 - Radiologic Image Production 2 credit hours
- RAD 111 - Radiographic Procedures 1: Positioning and Patient Care 4 credit hours
- RAD 112 - Clinical Radiography 1 5 credit hours

Total credit hours: 11

First Year - Term 2

- RAD 121 - Radiographic Procedures 2 5 credit hours
- RAD 122 - Clinical Radiography 2 5 credit hours
- RAD 123 - Imaging Equipment Maintenance and Operation 3 credit hours

Total credit hours: 13

Summer

- RAD 212 - Clinical Radiography 3 6 *credit hours*

Total credit hours: 6

Second Year - Term 1

- RAD 231 - Radiographic Procedures 4 3 *credit hours*
- RAD 232 - Clinical Radiography 4 6 *credit hours*

Total credit hours: 9

Second Year - Term 2

- RAD 250 - Radiation Biology, Protection, and Safety 4 *credit hours*
- RAD 252 - Clinical Radiography 5 6 *credit hours*

Total credit hours: 10

Diversity Requirement

Satisfied by SOC 111.

Technology Requirement

Completion of the Radiologic Technology program satisfies the college's Technology Requirement.

Wellness Requirement

Completion of the Radiologic Technology program satisfies the college's Wellness Requirement.

Program Outcomes

Program Goal 1: Student will demonstrate clinical competence

Program Outcomes:

- Students will apply proper positioning for all radiographic procedures performed.
- Students will produce diagnostic images applying appropriate exposure parameters.
- Students will follow appropriate radiation protective practices

Program Goal 2: Students will demonstrate effective critical thinking skills

Program Outcomes:

- Students are able to adapt for patients in a Trauma 1 clinical setting
- Students are able to adjust positioning skills and exposure parameters to meet patient needs and limitations.

Program Goal 3: Students will demonstrate effective communication skills

Program Outcomes:

- Students exhibit effective oral and written communication skills in the clinical setting.
- Students exhibit effective oral and written communication skills in the didactic setting.

Program Goal 4: Students will demonstrate professionalism

Program Outcomes:

- Students demonstrate a high level of professional conduct appropriate for an entry-level radiographer
- Students demonstrate willingness to work for the common good

Program Effectiveness Data

Program Outcomes:

- Program maintains a 75% retention rate.
- Graduates pass the ARRT certification examination on the first attempt
- Graduates actively seeking work have gained employment in radiologic technology within six months of graduation.
- Employers are satisfied with graduate performance as entry-level radiographers.
- Graduates are satisfied with the education received in preparing them as entry level radiographers

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Retail Management (certificate)

Official Title of Certificate: Retail Management, Certificate

Award: Certificate

Code: CRT.BPA.RTL-MGT

Total Credit Hours: 24

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: An eight course (24 credit hour) sequence of business courses that prepares the successful graduate for a career in retail management. Students will learn the various functions of running a retail store, which includes: sales and customer service, accounting, supervision of employees and use of the latest business software.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 24 credits

Choose one of the following (3 credit hours):

- BPA 125 - Principles of Marketing *3 credit hours*
- or
- ESI 104 - Entrepreneurship: Sales & Marketing for Small Business *3 credit hours*

Take all four of the following (12 credit hours):

- BPA 134 - Retail Management *3 credit hours*
- BPA 142 - Principles of Management *3 credit hours*
- BPA 162 - Business Communications *3 credit hours*
- BPA 172 - Human Resource Management *3 credit hours*

Choose one of the following (3 credit hours):

- BPA 200 - Foundations of Accounting *3 credit hours*
- or
- BPA 201 - Financial Accounting *3 credit hours*
- or
- BPA 217 - Small Business Accounting *3 credit hours*

And choose two electives from the list below (6 credit hours):

- BPA 126 - Advertising and Sales Promotion *3 credit hours*
- BPA 127 - Digital Marketing and Analytics *3 credit hours*
- BPA 135 - Customer Service *3 credit hours*
- BPA 190 - Organizational Behavior *3 credit hours*
- CTA 100 - Computing and Information Technology *3 credit hours*

Program Outcomes

Upon completion of the certificate, the student will be able to:

1. Apply competitive marketing strategies in a retail setting.
2. Utilize management techniques to maximize human performance.
3. Prepare financial statements and utilize data to improve decision making.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Server Administration and Security (certificate)

Official Title of Certificate: Server Administration and Security, Certificate

Award: Certificate

Code: CRT.CIS.SERVER

Total Credit Hours: 20

Visit www.aacc.edu to learn more about the Cybersecurity, Networking and Digital Forensics Department

Purpose: Learn how to support and maintain the integrity of systems, software, network, storage devices and data directly related to Windows and Linux server operations. Acquire systems and network administration functions such as installing, integrating,

documenting and maintaining software, firmware, computer, networks and storage systems, development and user environments, assisting system users and managing user accounts, and performing technical documentation and process engineering functions.

Related Industry Certifications

This program provides partial foundation for the following industry recognized certifications: Security+ (CompTIA) and Linux+ (CompTIA) industry certification exams.

Range of Occupations

- Linux administrator
- Network administrator
- Network engineer
- Network support technician
- Operating system specialist
- Systems administrator
- Systems engineer
- Windows server administration

Entrance/Admission Requirements

Entrance Requirements

Students must satisfy the prerequisites for each course in the certificate or have permission of the academic chair to take each course.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 20 credits

- CTS 120 - Introduction to Linux *4 credit hours*
- CTS 140 - Network Security Fundamentals *4 credit hours*
- CTS 222 - UNIX/LINUX System Administration *4 credit hours*
- CTS 234 - Windows Server *4 credit hours*
- CTS 240 - Advanced Network Defense *4 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

- Use the basic elements of the UNIX/LINUX operating system to send and receive electronic mail, utilize hierarchical file structure, create and edit documents, write shell programs and provide system security.
- Load, configure and maintain UNIX operating systems.
- Install, configure, manage, monitor and troubleshoot Windows servers.
- Build, configure, secure and troubleshoot basic and extended WLANs.
- Administer and support different brands of wireless LAN hardware.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Information Assurance and Cybersecurity (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Skilled Professional Trades Management (A.A.S.)

Official Title of Major: Skilled Professional Trades Management, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.EXPLORE.TRADES

Total Credit Hours: 60

About Continuing Education and Workforce Development

Purpose: This program offers an opportunity for students who have completed a Maryland Department of Labor (MDOL) registered apprenticeship program **and** earned an industry certification and/or license, a path to a degree by the award of college credit. This program is not intended for transfer, but allows students to customize their program based on their requirements. Students should choose a concentration based on their personal goals; program requirements are satisfied with the successful completion of the MDOL registered apprenticeship and proof of licensure or industry certification. Previous successfully completed college work may be applied to requirements where applicable.

Additional Program Requirements: To assure a level of competency in this program, a minimum of 12 credit hours of courses must be in a single discipline (concentration). The three letters used in a course designation (e.g. BPA or ACH) indicate the discipline to which it belongs.

Students are required to present proof of completion of MDOL registered apprenticeship and licensure or industry certification to receive college credit. The amount of credit awarded will be determined by the length of the apprenticeship and related training/instruction.

Areas of Concentration: This degree requires that students choose a concentration in one of two areas. A concentration is a structured plan of study within a degree program. The number of credit hours and particular course requirements for a concentration may vary, as listed below. To achieve a concentration, students must receive credit for every course requirement listed under that concentration.

Two Concentrations

1. Small Business Management (AAS.TRADES.SM-BUS)

Provides comprehensive skills necessary for a successful and satisfying business career. Exposes students to all aspects of today's rapidly changing and technologically challenging business environment. Prepares students for careers in the global economy. A program chosen from a core of courses considered essential for any business student and from a broad range of electives. Students are expected to select a four-course area of concentration that will permit them to enter a variety of business occupations. The groups of courses listed are examples of appropriate and logical selections in an area of concentration. Required courses cannot be used as area of concentration electives.

Range of Occupations

- Small business owner/manager

2. Construction Management (AAS.TRADES.CSTN)

Training in the organization and management of both large and small construction projects. Develop skills in the areas of project management, construction estimating, materials and methods of construction, and construction documentation. Teaches and integrates principles of business management as applied to construction technology.

Range of Occupations

- Construction manager
- Estimator
- Foreman
- Inspector
- Owner's field representative
- Project manager
- Superintendent

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Approximate, minimum cost of Technical Studies: Apprenticeship is \$6,656 (refer to Credit Costs)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 24

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 *3 credit hours*
- ENG 102 - Academic Writing and Research 2 *3 credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- COM 111 - Fundamentals of Oral Communication *3 credit hours*

Biological and Physical Sciences: 3 credits

See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

*See General Education Social and Behavioral Sciences Requirements for a list of approved courses.
Students are encouraged to take a Social and Behavioral Science course that also satisfies the college Diversity Requirement.
See Diversity Requirement for a list of approved courses.*

Additional General Education Requirements: 6 credits

- **Technology Requirement 3 credit hours**
See General Education Technology Requirements for a list of approved courses.
- **Wellness Requirement 3 credit hours**
See General Education Wellness Requirements for a list of approved courses.

Program Requirements: 36 credits

This is a common program requirement for both areas of concentration:

- **Successful completion of Maryland (MDOL) approved apprenticeship and proof of Maryland State Licensure or Industry Certification 12 credit hours**

Students must select one Area of Concentration in Small Business Management or Construction Management as specified below:

Small Business Management Area of Concentration Requirements: 24 credits

Degree Awarded: Technical Studies: Apprentice - Small Business Management Area of Concentration (See Records for code).

- BPA 111 - Introduction to Business 3 credit hours
- BPA 120 - Small Business Management 3 credit hours
- BPA 162 - Business Communications 3 credit hours
-
- **And choose 12 credits from the following:**
- BPA 125 - Principles of Marketing 3 credit hours
- BPA 138 - Business and Professional Ethics 3 credit hours
- BPA 142 - Principles of Management 3 credit hours
- BPA 172 - Human Resource Management 3 credit hours
-
- BPA 201 - Financial Accounting 3 credit hours
- **OR**
- BPA 217 - Small Business Accounting 3 credit hours
-
- LGS 250 - Legal Issues for Business 3 credit hours
(formerly crosslisted as BPA 250 - Legal Issues for Business)
- **OR**
- LGS 253 - Business Law 1 3 credit hours
(formerly crosslisted as BPA 253 - Business Law I)
-
- ECO 121 - Introduction to Economics 3 credit hours
- **OR**
- ECO 211 - Principles of Economics 1 3 credit hours

Elective: 3 credits

Choose any elective.

Construction Management Area of Concentration Requirements: 24 credits

Degree Awarded: Technical Studies: Apprentice - Construction Management Area of Concentration (See Records for code).

- ACH 111 - Graphic Communication 1: Composition and Delineation 3 credit hours
 - ACH 121 - Construction Technology 1 3 credit hours
 - ACH 122 - Construction Technology 2 3 credit hours
- Based upon an individual's earned certificate or license, some courses (e.g., ACH 111, ACH 121 or ACH 122) may not be required and with permission, substitutions can be made.*

And choose 12 credits from the following:

- ACH 216 - Construction Management 4 credit hours
- ACH 218 - Construction Operations 4 credit hours
- ACH 219 - Construction Contract Administration 3 credit hours
- ACH 230 - Cost Estimating for Construction 4 credit hours
- ACH 242 - Environmental Systems for Design 3 credit hours
- ACH 245 - Digital Technologies 1 3 credit hours
- BPA 162 - Business Communications 3 credit hours

Elective: 3 credits

Choose any elective.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. Students should satisfy this requirement with the General Education Social and Behavioral Science course selection as noted above.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate complex ideas and information through writing, speaking, presenting, and using technology.
2. Locate, organize, and analyze information from multiple sources in order to develop informed, reasoned, and substantiated arguments.
3. Apply mathematical skills, quantitative reasoning, and scientific reasoning to solve problems and interpret quantitative information.
4. Explain the significance of social diversity, respect for cultural values, and appreciation of differences among students, including race, religion, age, gender, sexual orientation, nationality, ethnicity and ability.
5. Meet individual program learning outcomes for the courses students take within their concentration and for other elective courses outside the general education requirements.

This program aligns with all the college's core competencies.

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Software Quality Assurance Analyst (certificate)

Title of Certificate: Software Quality Assurance Analyst, Certificate

Award: Certificate

Code: CRT.CIS.SQA-ANLST

Total Credit Hours: 20

Visit www.aacc.edu to learn more about the Computer Information Systems Department

Purpose: This certificate provides the student with skills and knowledge for using practical tools in all stages of software development, software quality assurance, and the software testing process. A software quality assurance analyst is concerned with gathering the requirements and documentation, source code control, code review, change management, configuration management, release management, and the actual testing of the software.

Range of Occupations

- Software Quality Assurance Test Engineer
- User Acceptance Testing
- Software Developer
- IT Quality Computer System Validation Engineer

A grade of C or better is required in each Software Quality Assurance Analyst course.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 20 credits

- CTA 124 - Software Testing for Quality Assurance 3 credit hours
- CTA 203 - Technical Communication 3 credit hours
- CTA 215 - Management Information Systems 3 credit hours

- CTA 224 - Agile Testing 3 *credit hours*
- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 *credit hours*
- CTP 200 - Systems Analysis and Design 4 *credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Describe the relationships between software development activities and test activities in the software development lifecycle and explain the difference between Software Quality Assurance (SQA) and Software Quality Control (SQC)
2. Apply a wide variety of testing techniques and implementation strategies
3. Design and create documents to effectively communicate ideas to technical and non-technical audiences
4. Write a successful test plan.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Solid Modeling and Rapid Prototyping (lor)

Official Title of Letter of Recognition: Solid Modeling and Rapid Prototyping, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: A minimum of 10

Visit www.aacc.edu to learn more about the Engineering Department

Purpose: Prepares students for initial employment in computer-aided mechanical design and drafting. Students will learn solid modeling techniques using SolidWorks and develop rapid prototyping skills such as three-dimensional printing and laser cutting. Students will have an opportunity to take the AutoCAD Certified User and Solidworks Associate Level Certification exams. It also provides job advancement skills for individuals currently in manual drafting jobs.

Range of Occupations

- Entry-level CAD operator
- Job advancement
- Retraining

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Degree/Award Requirements

Degree Requirements

Completion of each of the required courses with a grade of C or better.

Award Requirements

Students must apply to the Records and Registration office for the letter of recognition after they have completed the requirements.

Requirements: 10 credits

- ENT 241 - Computer-Aided Drafting *3 credit hours*
- ENT 260 - Solid Modeling with SolidWorks *3 credit hours*
- ENT 261 - Rapid Prototyping Techniques *4 credit hours*

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Spanish (certificate)

Official Title of Certificate: Spanish, Certificate

Award: Certificate

Code: CRT.SPANISH

Total Credit Hours: 16-22

About World Languages

Purpose:

This certificate builds on 21st-century competencies that students need to navigate a multicultural workplace, such as communication, collaboration, and social and cross-cultural skills. Upon successful completion of the Spanish certificate, students will be able to engage in meaningful conversation, understand spoken language and written text, and present information, concepts, and ideas in Spanish. In addition, students will learn to use their native and acquired language to work cooperatively across cultures with global team members, sharing responsibility and making necessary compromises while working toward a common goal. Finally, they will understand diverse cultural perspectives and use appropriate sociolinguistic skills to function in diverse cultural and linguistic contexts.

21st Century Skill Map for languages can be found

at: https://www.actfl.org/sites/default/files/pdfs/21stCenturySkillsMap/p21_worldlanguagesmap.pdf

The American Council on the Teaching of Foreign Languages (ACTFL) is the national organization that provides guidance on teaching and learning in world language classrooms. Students will earn the credential by completing the required courses listed in the certificate and by demonstrating that they can communicate in Spanish at a specific proficiency level. We will use the Oral Proficiency Interview (OPI) to gauge students' proficiency levels according to the ACTFL Proficiency Guidelines. This interactive assessment tool measures how well a person communicates in a second language. The OPI score along with the required courses show an employer and/or community organization what students can actually do with the Spanish language. This certificate will give the students a tangible credential enhanced by a nationally-recognized assessment tool that reveals their true proficiency levels.

A description of the Oral Proficiency Interview (OPI) can be found at: <https://www.actfl.org/professional-development/assessments-the-actfl-testing-office/oral-proficiency-assessments-including-opi-opic>

Range of Occupations:

- Educator
- Law enforcement

- Medical professional
- Childcare provider
- Contractor
- Landscape services
- Restaurant management
- Hotel management
- Social worker
- Home health aide
- Occupational therapy assistant
- Speech-language pathologist

Occupations can be explored further through the Career Services at <https://www.aacc.edu/resources/careers-and-employment/career-services/>.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Explanation of Course Sequence Options

The Elementary and Intermediate Spanish sequences provide students with the foundation and grammar skills necessary to be successful in more advanced Spanish courses. Students who have previously studied Spanish may request from the academic chair a waiver for SPA 111 or SPA 140 and SPA 112 or SPA 141. Students may transfer in credit to count toward completion of any intermediate courses with the exception of SPA 260. In accordance with COMAR, at least half of the credits used toward the certificate must be earned through traditional course work. At least 25 percent of the total credits in the certificate must be earned at Anne Arundel Community College.

SPA 260, Oral Proficiency Interview Preparation, is a mandatory 1-credit course required for all students enrolled in the Spanish certificate program.

Course sequences are designed to provide students with the foundation to become proficient in Spanish at the intermediate level according to the ACTFL Proficiency Guidelines. Please see the Academic Chair of World Languages for assessment and/or placement.

Certificate Requirements: 16 - 22 credits

Required courses: 1-13 credits

SPA 111 and SPA 112 are only required for beginning level students. SPA 111 and SPA 112 can be satisfied in any of the following ways: (i) successful completion of both courses, (ii) completion of two years of high school Spanish, or (iii) departmental assessment. See the academic chair for placement to begin at a level higher than SPA 111.

- SPA 111 - Elementary Spanish 1 3 credit hours
 - or
 - SPA 140 - Elementary Spanish for Health Care 1 3 credit hours
 - SPA 112 - Elementary Spanish 2 3 credit hours
 - or
 - SPA 141 - Elementary Spanish for Health Care 2 3 credit hours
 - SPA 211 - Intermediate Spanish 1 3 credit hours
 - SPA 212 - Intermediate Spanish 2 3 credit hours
 - SPA 260 - Oral Proficiency Interview Preparation 1 credit hour
- SPA 260 should be taken in the final semester of the certificate.*

Select three to five of the following: 9-15 credits

- SPA 213 - Intermediate Spanish Grammar Review and Composition *3 credit hours*
- SPA 221 - Intermediate Spanish Conversation *3 credit hours*
- SPA 225 - Intermediate Spanish Civilization and Culture *3 credit hours*
- SPA 226 - Intermediate Latin American Civilization and Culture *3 credit hours*
- SPA 227 - Intermediate Spanish and Latin American Film *3 credit hours*
- SPA 230 - Spanish for Business and Finance *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Communicate orally and in writing in Spanish in the community and workplace.
2. Work with native and heritage speakers of Spanish in a variety of contexts.

This program aligns with all the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Surgical Technology (A.A.S.)

*Special Admission Requirements - Program Application Deadline: August 30**

Official Title of Major: Surgical Technology, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.SGT.SGT

Total Credit Hours: A minimum of 65

Visit www.aacc.edu to learn more about the Surgical Technology Degree program

Purpose: The Surgical Technology program provides didactic, lab, and clinical experiences that prepare students to become integral members of the surgical team. Students learn to manage the sterile field and to provide safe care of the surgical patient. Graduates of the program are prepared to take the national certification exam (CST) and to be employed as entry-level surgical technologists.

The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA).

AACC cannot confirm whether the course or program meets requirements for professional licensure in states other than Maryland. If you plan to apply for licensure in a state other than Maryland, contact that state's licensing board to determine whether the AACC course or program meets requirements for licensure in that state. If you need assistance finding contact information for your state, or if you need additional information regarding professional licensure, please contact the School of Health Sciences at 410-777-7310.

Additional Program Requirements

A grade of C or better in each surgical technology and general education course is required to progress in the program.

Range of Occupations

- Surgical technologist

Anne Arundel Community College and/or the School of Health Sciences reserves the right to revise requirements for admission into the Health Sciences programs, the selection criteria and procedures, and the required courses for programs of study as deemed necessary without prior notification.

**If application deadline falls on a weekend, then applications will be accepted until the close of business on the next business day.*

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Entrance/Admission Requirements

Admission Requirements

To view all entrance/admission details, please go to Surgical Technology Admission Requirements page.

Criminal Background Check and Drug Screening

This program requires the satisfactory completion of a criminal background check and possible drug screening. For complete details, see Health Sciences Criminal Background & Drug Screening.

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Prerequisites

- BIO 231 - Human Biology 1 4 credit hours **AND**
- BIO 232 - Human Biology 2 4 credit hours
- **OR**
- BIO 233 - Anatomy and Physiology 1 4 credit hours **AND**
- BIO 234 - Anatomy and Physiology 2 4 credit hours
- *BIO 101 is a prerequisite for BIO 233-BIO 234.*
- MDA 113 - Medical Terminology 3 credit hours

Total credit hours: 11

Program Requirements

First Year - Term 1

- SGT 100 - Principles of Surgical Technology 1 4 credit hours
- BIO 223 - General Microbiology 4 credit hours

English: 3 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours **OR**
- ENG 101A - Academic Writing and Research 1 3 credit hours

Mathematics (general education requirement): 3-4 credits

See General Education Mathematics Requirements for a list of approved courses.

Total credit hours: 14-15

First Year - Term 2

- PSY 111 - Introduction to Psychology 3 *credit hours*
- SGT 102 - Principles of Surgical Technology 2 6 *credit hours*
- CTA 100 - Computing and Information Technology 3 *credit hours*
- OR**
- CTP 103 - Theories and Applications of Digital Technology 3 *credit hours*

Total credit hours: 12

Second Year - Term 1

- SGT 201 - Surgical Technology Clinical 5 *credit hours*
- SGT 108 - Surgical Procedures 1 4 *credit hours*

Arts and Humanities (general education requirement): 3 credits

Must meet diversity requirement, see General Education Arts and Humanities Requirements.

Total credit hours: 12

Second Year - Term 2

- SGT 202 - Surgical Procedures 2 4 *credit hours*
- SGT 205 - Surgical Technology Clinical 2 5 *credit hours*
- SGT 206 - Surgical Technology Clinical 3 5 *credit hours*
- SGT 208 - Perspectives of Surgical Technology 2 *credits*

Total credit hours: 16

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Obtain employment as a competent entry-level surgical technologist.
2. Utilize technical, critical thinking, and problem-solving skills to adapt to the dynamic nature of the surgical environment.
3. Discuss surgical procedures and the needs of the surgical patient by integrating knowledge of medical terminology, anatomy, pharmacology, pathophysiology, instrumentation, and the duties of a surgical technologist.
4. Model positive affective behaviors that include responsibility, initiative, respect for others, and appropriate response to constructive feedback.
5. Pass the national certification exam at a level meeting or exceeding the current accreditation standard.

6. Exhibit awareness of the value of each surgical patient as a "whole person" with diverse needs, acting above all else, in furtherance of the safety and welfare of each patient.
7. Practice the profession of surgical technology within established ethical and legal principles, reflecting a commitment to surgical conscience, ethical decision making, and continuing education.
8. Demonstrate effective communication skills that facilitate the ability to work collaboratively in educational and professional settings and particularly in caring for the surgical patient.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Teacher Education (A.A.)

Official Title of Major: Teacher Education (A.A.)

Award: Associate of Arts degree, A.A.

Total Credit Hours: 60

Code: AA.EDU.TEACH

Visit www.aacc.edu to learn more about the Teacher Education and Child Care (TEACH) Institute

Purpose: The Teacher Education, A.A. degree is designed for students preparing to transfer to a four-year institution to obtain a baccalaureate degree and earn Maryland state teacher certification. The program incorporates foundational coursework in teacher education, content coursework, and a field-based experience at the appropriate level of teacher certification. The degree is for students who plan to enter secondary education (7th through 12th grades) or a pre-K through 12th grade content area such as health, art, or physical education. Students may not earn both this degree and the AAT degree.

Additional Degree Requirements

To earn the degree students must complete all required coursework and the following additional requirements:

- Students must earn a C or better in all coursework required for the degree and obtain a cumulative grade point average of 2.75 or better.
- Students must complete fieldwork requirements as indicated by the Teacher Education and Child Care Institute. Participation in the required fieldwork experience is contingent upon satisfactory completion of the criminal background check.
- Students may be required to meet additional admittance requirements at the chosen transfer institution.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

General Education Requirements: 31-33 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- COM 111 - Fundamentals of Oral Communication 3 *credit hours*
or COM 116 Fundamentals of Oral Communication for Non-Native Speakers
Arts and Humanities General Education Course other than COM.

Biological and Physical Sciences: 7-8 credits

At least one laboratory science course required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 - 4 credits

- MAT 135 - Statistics 3 *credit hours*
or higher.
Students should consult with an academic advisor to select an appropriate math course for their transfer school.

Social and Behavioral Sciences: 6 credits

- PSY 111 - Introduction to Psychology 3 *credit hours*
Social and Behavioral Sciences Course other than PSY.

Additional General Education requirements: 3 Credits

- HEA 111 - Personal and Community Health 3 *credit hours*

Program Requirements: 27-29 credits

- EDU 111 - Foundations of Education 3 *credit hours*
- EDU 133 - Growth and Development 3 *credit hours*
- EDU 211 - Educational Psychology 3 *credit hours*
- EDU 214 - Introduction to Special Education 3 *credit hours*
AND students must meet with the education advisor to choose 15-17 elective credits for the intended area of teaching; 9 of these credits must be from a single discipline. The three letters used in a course designation, e.g., BIO, ENG, ART, indicate the discipline to which it belongs. Physical activities courses cannot be counted in the single discipline requirement.

Diversity Requirement

Satisfied by EDU 214.

Technology Requirement:

Satisfied by EDU 214.

Wellness Requirement

Satisfied by HEA 111.

Program Outcomes

Upon successful completion of this program, students will be able to:

1.
 1. Identify major historical events in education and analyze the impact of those events with current educational trends
 2. Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to disabilities and cultural and linguistic diversity.
 3. Analyze and critique current scientifically-based research and culturally responsive instructional practices for the purpose of understanding the educational needs of students and families.
 4. Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners.
 5. Demonstrate and utilize technology as a teaching/reinforcement tool.
 6. Analyze and reflect upon teaching practices for the purpose of improving and differentiating instruction for students.
 7. Develop excellent written, verbal, critical thinking, and problem solving skills, which will allow him or her to effectively make connections between prior knowledge/experience and new learning.
 8. Identify and conduct themselves as education professionals who use InTASC Model Core Teaching Standards
 9. Identify types and purposes of assessment and be introduced to how to analyze and interpret student data to plan instruction and determine proficiency

This program aligns with all the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Early Childhood Education/Early Childhood Special Education (A.A.T.)
- Elementary Education/Elementary Special Education (A.A.T.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Transfer Studies (A.A.)

Official Title of Major: Transfer Studies, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.TRANSFER.STDS

Total Credit Hours: 60

Purpose: Provides an opportunity for students to earn the first two years of a four-year program in a major not specifically offered, or for which the offered major is not a close match for the desired four-year program. This program offers flexibility in complying with

requirements for transfer to baccalaureate colleges, and allows students to customize their program based on their requirements. Students should choose a concentration and electives based on the requirements of the school they will transfer to.

Select a minimum of 12 credits in a concentration. A concentration is defined as either (1) courses with the same three-letter course designation (i.e. BIO, ENG, GSS), (2) courses in related areas of inquiry including, but not limited to: PSY/SOC; CTA/CTP/CTS; BPA/ECO/LGS; ENT/EET/ACH; ASL/SPA/FRE/KOR/GER/ITA/JPN/RUS (World Languages); ANT/SOC; ANT/BIO; CHE/PHY/BIO/MAT; AST/PHY/PHS; BIO/HEA; ART/MUS; HIS/PHL

Students may request permission to customize their concentration using a combination of courses which are not listed above. Please meet with an academic advisor for assistance. Physical activities courses may not be used to meet a concentration requirement.

The general education degree requirements section of this catalog includes the general education degree requirements for this degree. Refer to the sections below to ensure that diversity, technology, wellness, and general education degree requirements are included in your course selections.

Career and Academic Exploration: Students can use the Transfer Studies degree to explore various career and academic options. The Undecided/General Explore program allows students to take courses that lead to majors in any of our Fields of Interest. Students interested in exploring should consult an academic advisor.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

General Education Requirements: 30-31 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement

Arts and Humanities: 6 credits

Refer to General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 7 - 8 credits

At least one lab science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 - 4 credits

Refer to General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 6 credits

Refer to General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirements: 0-3 credits

Students must complete a minimum of 30 General Education credits.

Program Requirements: 29-30 credits

Concentration Requirements: 12 credits

Select a minimum of 12 credits in a concentration. A concentration is defined as either (1) courses with the same three-letter course designation (i.e. BIO, ENG, GSS), (2) courses in related areas of inquiry including, but not limited to:

PSY/SOC

CTA/CTP/CTS

BPA/ECO/LGS

ENT/EET/ACH

ASL/SPA/FRE/KOR/GER/ITA/JPN/RUS (World Languages)

ANT/SOC

ANT/BIO

CHE/PHY/BIO/MAT

AST/PHY/PHS

BIO/HEA

ART/MUS

HIS/PHL

Students may request permission to customize their concentration using a combination of courses which are not listed above. Please meet with an academic advisor for assistance. Physical activities courses may not be used to meet a concentration requirement.

Electives: 16-18 credits

The remaining credit hours needed to achieve a minimum total of 60 credit hours are to be chosen with the approval of an advisor. No more than 3 credits of physical activity courses may be used as electives. Students must complete a minimum of 30 credits of general education.

ACA 100: 1 credit

ACA 100 - Student Success Seminar OR evidence of completion of 24 college credits.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon completion of this program, students should be able to:

1. Communicate complex ideas and information in the arts, humanities, and social sciences through writing, speaking, presenting, and using technology.
2. Locate, organize, and analyze information from multiple sources in order to develop informed, reasoned, and substantiated arguments.
3. Apply mathematical skills, quantitative reasoning, and scientific reasoning to solve problems and interpret quantitative information.
4. Explain the significance of social diversity, respect for cultural values, and appreciation of differences among students, including race, religion, age, gender, sexual orientation, nationality, ethnicity and ability.
5. Meet individual program learning outcomes for the courses students take within their concentration and for other elective courses outside the general education requirements.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Transportation, Logistics, and Cargo Security (certificate)

Official Title of Certificate: Transportation, Logistics, and Cargo Security, Certificate

Award: Certificate

Code: CRT.BMT.TRANSPORT

Total Credit Hours: 18

Visit www.aacc.edu to learn more about the Business Management Department

Purpose: This certificate will prepare students for entry-level employment in the growing transportation and logistics industry and enhance the knowledge and skills of existing industry employees.

Employment Information: The range of occupations within the various sectors of the transportation industry include air, sea, ground, rail, warehousing and distribution. The minimum hiring age varies between 18 and 21, depending on the employer. The majority of jobs in this industry require drug testing and criminal background checks. Students are advised to consider these industry requirements before applying to the program.

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Statewide Tuition Reduction Program

This program of study is designated a Statewide Tuition Reduction Program. This means that some residents of Maryland (refer to the Tuition, Fees and Payments section of this catalog) enrolled in this program of study by the first day of the term may be eligible for in-county tuition rates for courses required for program completion. It is the student's responsibility to confirm that this program still maintains a Statewide Program status before enrolling. Please refer to the college's Accounts Receivable Office to confirm this designation.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 18 credits

- BPA 235 - Introduction to Transportation and Logistics *3 credit hours*
- BPA 236 - Introduction to Airport and Seaport Operations *3 credit hours*
- BPA 237 - Supply Chain Management *3 credit hours*
- BPA 238 - Domestic and International Freight Operations *3 credit hours*
- BPA 275 - Internship in Business 1 *3 credit hours*
- HLS 213 - Transportation and Border Security *3 credit hours*

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Analyze information and process it to a rational conclusion.
2. Present case analyses reports in a cohesive and convincing manner.
3. Understand the global nature of the world's transportation systems.
4. Understand and identify documents that are generally used in the transportation of materials process.
5. Apply moral and ethical standards to sensitive homeland security issues.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Business Management - Supply Chain Management (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Visual Arts Professional - Game Development (A.A.S.)

Official Title of Major: Visual Arts Professional - Game Development, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.VSL-P.GAME-DEV

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Purpose: Designed to provide students with basic skills necessary to become independent game developers. It provides first-hand experience in designing game levels, producing original game art, and prototyping game concepts using both 2D and 3D game engines.

Students interested in working for a large AAA game company are encouraged to consider the Visual Arts Transfer AA-Game and Art Design area of concentration. The transfer degree will better prepare a student for developing a more focused set of skills necessary to get an entry-level job in this highly competitive industry, by allowing students to more easily transfer to a four year school to complete a bachelor degree. There is also a Game Development Certificate available for students who wish for a more focused study of the subject.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Visual Arts Professional Degree Core Courses

The following courses make up the core for the Visual Arts Professional degree programs: ART 100 (satisfied by the Arts and Humanities general education requirement listed below), ART 106, (satisfied by the Technology Requirement listed below), ART 250 and ART 275 (satisfied by the Area of Concentration requirement listed below).

Students must complete all of these courses with a grade of C or better.

General Education Requirements: 21 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- ART 100 - Two-Dimensional Design 3 *credit hours*

Biological and Physical Sciences: 3 credits

A lab science is acceptable. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirement: 3 credits

- **Wellness Requirement** 3 credit hours

See General Education Wellness Requirements for a list of approved courses.

Area of Concentration: 39 credits

Students must complete all of these courses with a grade of C or better.

Required Courses: 19 credits

- ART 155 - 2D Game Prototyping 3 credit hours
- ART 157 - 3D Game Prototyping 3 credit hours
- ART 158 - Game History 3 credit hours
- ART 159 - Game Interface Design 3 credit hours
- ART 255 - Game Development 3 credit hours
- ART 250 - Digital Portfolio Development 1 credit hour
- ART 275 - Digital Arts Internship 3 credit hours
Students may substitute ART 259 for ART 275.

Technology Requirement: 3 credits

- ART 106 - Introduction to Digital Design 3 credit hours

Choose two courses from the following: 6 credits

- ART 154 - 3D Computer Graphics 3 credit hours
- ART 156 - 3D Game Graphics 3 credit hours
- ART 258 - Game Character Design 3 credit hours
- ART 259 - Gaming Practicum 3 credit hours

Art Electives: 6 credits

Choose two of the following:

- ART 103 - Color 3 credit hours
- ART 120 - Digital Photography 1 3 credit hours
- ART 121 - Darkroom Photography 1: Black & White 3 credit hours
- ART 125 - Drawing 1 3 credit hours
- ART 135 - Sculpture 1: Clay Modeling and Mixed Media 3 credit hours
- ART 137 - Illustration 3 credit hours
- ART 160 - Video 1 3 credit hours
- ART 166 - Graphic Design 1 3 credit hours
- ART 170 - Web Design 1 3 credit hours

- ART 251 - Animation 1 3 credit hours
- ART 252 - Animation 2 3 credit hours
- ART 262 - Image & Design 3 credit hours

Electives: 5 credits

No more than 3 credits of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by ART 106.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of the Game Development Area of Concentration, students will be able to:

1. Produce and design game assets;
2. Evaluate game software and hardware;
3. Apply knowledge of game development, history, and testing in creation of game concepts and prototypes;
4. Collaborate with others professionally on game development.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Professional - Graphic Design (A.A.S.)
- Visual Arts Professional - Media Production (A.A.S.)
- Visual Arts Professional - Web Design (A.A.S.)
- Game Development (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Visual Arts Professional - Graphic Design (A.A.S.)

Official Title of Major: Visual Arts Professional - Graphic Design, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.VSL-P.GRPH-DSGN

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Purpose: Prepares students for an internship or entry-level position in the field of graphic design and enhances knowledge and skills of those already working in the industry. This concentration may also allow professionals in a related industry to make a career change or supplement an existing degree.

Students will develop fundamental skills in graphic design, including drawing, typography, digital imaging, photography and page design and layout. Students will gain professional experience while working on client-based projects and completing a graphic design internship.

This is not intended as a transfer degree. Students who wish to obtain a bachelor's degree in Graphic Design should consider the Visual Arts Transfer - Graphic and Web Design (A.A.). There is also a Graphic Design (certificate) for those who wish for a more focused course of study.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Visual Arts Professional Degree Core Courses

The following courses make up the core for the Visual Arts Professional degree programs: ART 100 (satisfied by the Arts and Humanities general education requirement listed below), ART 106, (satisfied by the Technology Requirement listed below), ART 250 and ART 275 (satisfied by the Area of Concentration requirement listed below).

Students must complete all of these courses with a grade of C or better.

General Education Requirements: 21 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- ART 100 - Two-Dimensional Design 3 *credit hours*

Biological and Physical Sciences: 3 credits

A lab science is acceptable. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirement: 3 credits

- **Wellness Requirement** 3 credit hours
See General Education Wellness Requirements for a list of approved courses.

Area of Concentration: 39 credits

Required Courses: 25 credits

- ART 120 - Digital Photography 1 3 credit hours
- ART 125 - Drawing 1 3 credit hours
- ART 166 - Graphic Design 1 3 credit hours
- ART 170 - Web Design 1 3 credit hours
- ART 262 - Image & Design 3 credit hours
- ART 264 - Fundamentals of Typography 3 credit hours
- ART 266 - Graphic Design 2 3 credit hours
- ART 250 - Digital Portfolio Development 1 credit hour
- ART 275 - Digital Arts Internship 3 credit hours

Technology Requirement: 3 credits

- ART 106 - Introduction to Digital Design 3 credit hours

Choose two courses from the following: 6 credits

- ART 103 - Color 3 credit hours
- ART 137 - Illustration 3 credit hours
- ART 161 - Video Editing 3 credit hours
- ART 236 - Digital Photography 2 3 credit hours
- ART 246 - Screen Printing 3 credit hours
- ART 268 - User Experience Design for the Web 3 credit hours
- ART 269 - Responsive Web Design 3 credit hours
- ART 270 - Web Design 2 3 credit hours
- BPA 127 - Digital Marketing and Analytics 3 credit hours
- ESI 103 - Introduction to Entrepreneurship 3 credit hours

Electives: 5 credits

No more than 3 credits of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by ART 106.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of the Graphic Design Area of Concentration, students will be able to:

1. Incorporate knowledge of design history into original design work;
2. Apply conceptual techniques (sketching, storyboarding, etc.) as a preliminary process in the design of original work;
3. Utilize principles and elements of design to respond to specific graphic design problems;
4. Use mainstream technological tools to solve design problems and communicate complex information in a clear and creative format;
5. Apply knowledge of production processes in the creation of a wide variety of design projects;
6. Apply knowledge of typography, color, form, and layout, and apply this knowledge in a variety of design projects;
7. Collaborate with local businesses, organizations, and non-profits to produce real-world, portfolio-ready design projects;
8. Discuss primary historical periods and cultural trends in art and graphic design;
9. Develop a professional portfolio of work, suitable to present at interviews for both transfer and job-related activities;
10. Communicate with design instructors, peers and clients about select design projects.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Professional - Game Development (A.A.S.)
- Visual Arts Professional - Media Production (A.A.S.)
- Visual Arts Professional - Web Design (A.A.S.)
- Graphic Design (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Visual Arts Professional - Media Production (A.A.S.)

Official Title of Major: Visual Arts Professional - Media Production, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.VSL-P.MEDIA-PROD

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Purpose: Designed for students who wish to gain skills that will better prepare them to work in the video and film industry. Students will develop basic skills in the production and post-production of time-based media. With a focus mainly on digital video, students will get first-hand experience developing, making, and editing original footage.

This program is not specifically designed for transfer to a four year institution. Should a student wish to transfer using this degree it is strongly recommended that the student consult with a transfer advisor and the department video coordinator to ensure an efficient transfer. Students may also wish to consider the Visual Arts Transfer AA degree or the Video Production Certificate.

Additional Degree Requirements

A grade of C or better is required in each Visual Arts Professional program course requirement.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Visual Arts Professional Degree Core Courses

The following courses make up the core for the Visual Arts Professional degree programs: ART 100 (satisfied by the Arts and Humanities general education requirement listed below), ART 106, (satisfied by the Technology Requirement listed below), ART 250 and ART 275 (satisfied by the Area of Concentration requirement listed below).

Students must complete all of these courses with a grade of C or better.

General Education Requirements: 21 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- ART 100 - Two-Dimensional Design 3 *credit hours*

Biological and Physical Sciences: 3 credits

A science lab is acceptable. See Biological and Physical Science General Education Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirement: 3 credits

- **Wellness Requirement** 3 credit hours
See General Education Wellness Requirement for a list of approved courses.

Area of Concentration: 39 credits

Required Courses: 25 credits

- ART 112 - Introduction to Sound Design 3 credit hours
- ART 120 - Digital Photography 1 3 credit hours
- ART 160 - Video 1 3 credit hours
- ART 161 - Video Editing 3 credit hours
- ART 180 - Introduction to Film 3 credit hours
- ART 260 - Video 2 3 credit hours
- ART 251 - Animation 1 3 credit hours
- ART 250 - Digital Portfolio Development 1 credit hour
Students may substitute ART 230 for ART 250.
- ART 275 - Digital Arts Internship 3 credit hours

Technology Requirement: 3 credits

- ART 106 - Introduction to Digital Design 3 credit hours

Choose two courses from the following: 6 credits

- ART 121 - Darkroom Photography 1: Black & White 3 credit hours
- ART 125 - Drawing 1 3 credit hours
- ART 154 - 3D Computer Graphics 3 credit hours
- ART 166 - Graphic Design 1 3 credit hours
- ART 170 - Web Design 1 3 credit hours
- ART 181 - Introduction to American Film 3 credit hours
- ART 215 - Notable Film Directors 3 credit hours
- ART 216 - Independent Film 3 credit hours
- ART 236 - Digital Photography 2 3 credit hours
- ART 239 - Techniques of Photographic Lighting 3 credit hours
- ART 252 - Animation 2 3 credit hours
- ART 262 - Image & Design 3 credit hours

Electives: 5 credits

Students are recommended to consult with Visual Arts faculty when selecting electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by ART 106.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of the Media Production Area of Concentration, students will be able to:

1. Create storyboards, use video equipment, and organize shoots and video crew;
2. Create, mix, and edit images, sounds, and video into presentation for various genres;
3. Develop skills in using digital video as a medium for storytelling;
4. Produce analysis and criticism of films;
5. Analyze the relationship between film and culture;
6. Apply various critical methodologies to interpret films;
7. Discuss history of film and film industry.

This program aligns with the college's core competencies.

Related Anne Arundel Community College Majors & Programs

- Arts and Sciences Transfer - Cinematic Arts (A.A.)
- Media Production (certificate)

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Professional - Game Development (A.A.S.)
- Visual Arts Professional - Graphic Design (A.A.S.)
- Visual Arts Professional - Web Design (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Visual Arts Professional - Web Design (A.A.S.)

Official Title of Major: Visual Arts Professional - Web Design, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.VSL-P.WEB-DESIGN

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Web Design program

Purpose: Prepares students for a career in the field of web design. For those already working in the industry, this concentration enhances and updates their knowledge and skills with the latest developments in web design. The Visual Arts Professional AAS Web Design Area of Concentration also allows professionals in a related industry such as graphic design to make a career change or supplement an existing degree.

Upon completion of this degree, students will have obtained a solid foundation in design and art while developing a user-centered approach to web design. Students will be able to plan and complete interactive web designs by creating wireframes, flow diagrams, user personas, standards-compliant HTML and CSS, and compelling visual designs. Students will have gained professional experience by working on simulated and actual client projects and completing a design internship.

This is not intended as a transfer degree. Students who wish to obtain a bachelor's degree in Web Design should contact the Visual Arts department chair. A Certificate in Web Design is also available. Related degrees/certificates are the Visual Arts Professional AAS in Graphic Design and the Certificate in Graphic Design. The Visual Arts Transfer AA Graphic and Web Design Area of Concentration is available for students who wish to transfer to a four-year institution and pursue a bachelor's degree.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Visual Arts Professional Degree Core Courses

The following courses make up the core for the Visual Arts Professional degree programs: ART 100 (satisfied by the Arts and Humanities general education requirement listed below), ART 106, (satisfied by the Technology requirement listed below), ART 250 and ART 275 (satisfied by the Area of Concentration requirement listed below).

Students must complete all of these courses with a grade of C or better.

General Education Requirements: 21 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours
- ENG 102 - Academic Writing and Research 2 3 credit hours
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

- ART 100 - Two-Dimensional Design 3 credit hours

Biological and Physical Sciences: 3 credits

A lab science is acceptable. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 3 credits

See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Wellness Requirement: 3 credits

All students in Associate Degree programs must satisfy the Wellness requirement. See Wellness Requirements for a list of approved courses.

Area of Concentration: 39 credits

Required courses: 16 credits

- ART 170 - Web Design 1 3 credit hours
- ART 268 - User Experience Design for the Web 3 credit hours
- ART 269 - Responsive Web Design 3 credit hours
- ART 270 - Web Design 2 3 credit hours
- ART 250 - Digital Portfolio Development 1 credit hour
- ART 275 - Digital Arts Internship 3 credit hours

Technology Requirement: 3 credits

- ART 106 - Introduction to Digital Design 3 credit hours

Choose three to four courses from the following: 12 credits

Recommended courses for students interested in front-end visual web design:

- ART 166 - Graphic Design 1 3 credit hours
- ART 262 - Image & Design 3 credit hours
- ART 264 - Fundamentals of Typography 3 credit hours

Recommended courses for students interested in full stack web design:

- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 credit hours
- CTP 135 - Programming in JavaScript and jQuery 4 credit hours
- CTP 136 - jQuery 4 credit hours

Recommended courses for students interested in writing for the web as content managers or editors:

- BPA 127 - Digital Marketing and Analytics 3 credit hours
- BPA 162 - Business Communications 3 credit hours
- ENG 207 - Writing for Professionals 3 credit hours

Electives: 8 credits

Students are recommended to consult with Visual Arts faculty when selecting electives. No more than 3 credits of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by ART 106.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of the Web Design Concentration, students will be able to:

1. Apply the principles and elements of design to communicate information on the web in a visually compelling, user-centered manner.
2. Write standards-compliant HTML and CSS that is semantically correct.
3. Apply the appropriate file formats, resolutions, and export parameters when creating images for the web.
4. Effectively research and communicate the business goals and user needs of a web site via industry-standard user experience documents.
5. Design and code web pages that are effective on multiple screen sizes and unique user contexts.
6. Present concepts to clients clearly and professionally in both verbal and written form.
7. Apply JavaScript elegantly and efficiently to enhance the user experience.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Professional - Game Development (A.A.S.)
- Visual Arts Professional - Graphic Design (A.A.S.)
- Visual Arts Professional - Media Production (A.A.S.)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Visual Arts Transfer - Art History and Museum Studies (A.A.)

Official Title of Major: Visual Arts Transfer - Art History and Museum Studies, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.VSL.ART-HIS-ME

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Purpose: Prepares students for transfer to a four-year program in art history, museum studies or education. Upon completion of the bachelor's degree, students with teaching certification will be eligible for a job as an art history teacher at a secondary institution (middle or high school). Those who wish to teach at a post-secondary institution (college or university) or work at a museum should pursue at minimum a master's degree after graduation from the four year school.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Visual Arts Transfer Program Core Courses

The program core for this degree consists of ART 100 (satisfied through the Arts & Humanities General Education Requirement as listed below); ART 106 (satisfied through the Technology Requirement as listed below); and ART 125 (satisfied through the Studio Art requirement as listed below).

Students must complete all of these courses with a grade of C or better.

General Education Requirements: 31 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours
 - ENG 102 - Academic Writing and Research 2 3 credit hours
- ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.*

Arts and Humanities: 6 credits

Students must complete ART 100- Two-Dimensional Design and a course in a second discipline to fulfill this requirement. Refer to Arts and Humanities General Education Courses for a list of approved courses. Students are encouraged to enroll in at least one elementary or intermediate World Language course.

- ART 100 - Two-Dimensional Design 3 credit hours

Biological and Physical Sciences: 7 credits

At least one lab science required. Refer to General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 6 credits

Students must select courses from two different disciplines to fulfill this requirement. Refer to General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirements: 3 credits

- **Wellness Requirement** 3 credit hours

See General Education Wellness Requirement for approved list of courses.

Area of Concentration: 29 credits

Art History Courses: 12 credits

Required courses:

- ART 209 - History of Western Art: Ancient to Medieval 3 credit hours
- ART 210 - History of Western Art: Renaissance to Present 3 credit hours

And, choose two of the following:

- ART 180 - Introduction to Film 3 credit hours
- ART 181 - Introduction to American Film 3 credit hours
- ART 212 - History of Photography 3 credit hours
- ART 219 - History of American Art 3 credit hours
- ART 220 - History of Modern Art 3 credit hours
- ART 221 - History of World Architecture: Ancient to Medieval 3 credit hours
- ART 222 - History of World Architecture: Renaissance to Present 3 credit hours
- ART 223 - History of American Architecture 3 credit hours
- ART 224 - Introduction to Historic Preservation 3 credit hours
- ART 227 - Asian Art 3 credit hours
- ART 228 - African American Art 3 credit hours
- ART 229 - Indigenous Art 3 credit hours
- HUM 151 - American Folk Arts 3 credit hours
- HUM 210 - Images of Women 3 credit hours

Technology Requirement: 3 credits

All students in associate degree programs must satisfy the Technology Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Satisfied by ART 106.

Electives: 14 credits

One of the electives must include ART 125 - Drawing 1 to fulfill the program core. For the remaining credit hours, students are encouraged to check their transfer institution's requirements or to contact the Art History and Museum Studies Program Coordinator before selecting electives. No more than 3 credit hours of physical activity courses may be used as electives.

- ART 125 - Drawing 1 3 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of the Art History & Museum Studies Concentration, students will be able to:

1. Describe art historical knowledge across a range of chronological, cultural, and geographic areas using disciplinary vocabulary
2. Identify and distinguish between various art historical and architectural styles
3. Identify and distinguish between artistic and architectural media and methods of construction
4. Situate artworks, monuments, and buildings within their socio-historical contexts
5. Use historical tools ranging from visual and material artifacts, primary and secondary source material, and other online resources to construct arguments about art and the built environment
6. Summarize and critically appraise art historical sources, research methods and interpretations

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Transfer - Game Art and Design (A.A.)
- Visual Arts Transfer - Graphic and Web Design (A.A.)
- Visual Arts Transfer - Photography (A.A.)
- Visual Arts Transfer - Studio Arts (A.A.)

Transferring Credits to a Maryland Public Four-Year School

Maryland public four-year colleges and universities accept a minimum of 60 and as many as 70 credits earned toward an associate degree from a Maryland public community college. Students planning to transfer should consult with an AACC academic and transfer advisor; and are advised to obtain permission from the four-year college or university when planning to transfer credits beyond the minimum degree requirements at AACC. More than 70 credits earned at AACC may be transferred if outlined within an established transfer agreement. Current transfer agreements can be found on the AACC Transfer Partners webpage.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Visual Arts Transfer - Game Art and Design (A.A.)

Official Title of Major: Visual Arts Transfer - Game Art and Design, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.VSL.GAME.ART-DSGN

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Purpose: Prepares students for transfer to a four year game art or game design program. After graduation from a transfer institution, students will be eligible for entry level positions in the game industry as artists and designers. It is recommended that students work closely with the game faculty to determine what specific jobs within game art and design are of particular interest, and then identify potential transfer programs that would provide the necessary training to secure an entry level job in that specific area. Students with existing degrees, wishing to focus specifically on developing game skills, or wishing to enter the game industry after completing an associate degree should also check out the Visual Arts Professional Game Development AAS area of concentration, and the Game Development Certificate. Students interested in game programming and game engineering should consider the Computer Science Transfer AS or Internet and Mobile Device Software Development AAS degrees and related certificates.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Visual Arts Transfer Program Core Courses

The program core for this degree consists of ART 100 (satisfied through the Arts & Humanities General Education Requirement as listed below); ART 106 (satisfied through the Technology Requirement as listed below); and ART 125 (satisfied through the additional Art Course requirement as listed below).

Students must complete all of these courses with a grade of C or better.

General Education Requirements: 31 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- ART 100 - Two-Dimensional Design 3 *credit hours*
AND

- ART 209 - History of Western Art: Ancient to Medieval 3 credit hours
- OR**
- ART 210 - History of Western Art: Renaissance to Present 3 credit hours

Biological and Physical Sciences: 7

At least one lab science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 6 credits

Must select two different disciplines. See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Wellness: 3 credits

Must select from list of approved General Education Wellness Courses.

Area of Concentration Requirements: 29 credits

Students must complete all of these courses with a grade of C or better.

Required Courses: 13 credits

- ART 155 - 2D Game Prototyping 3 credit hours
- ART 157 - 3D Game Prototyping 3 credit hours
- ART 250 - Digital Portfolio Development 1 credit hour
- ART 255 - Game Development 3 credit hours

And, choose one of the following:

- ART 154 - 3D Computer Graphics 3 credit hours
- ART 156 - 3D Game Graphics 3 credit hours
- ART 158 - Game History 3 credit hours
- ART 159 - Game Interface Design 3 credit hours
- ART 258 - Game Character Design 3 credit hours
- ART 259 - Gaming Practicum 3 credit hours

Additional Art Courses: 9 credits

- ART 125 - Drawing 1 3 credit hours

And, choose two of the following:

- ART 102 - Three-Dimensional Design 3 credit hours
- ART 103 - Color 3 credit hours
- ART 120 - Digital Photography 1 3 credit hours
- ART 121 - Darkroom Photography 1: Black & White 3 credit hours
- ART 131 - Painting 1 3 credit hours
- ART 135 - Sculpture 1: Clay Modeling and Mixed Media 3 credit hours

- ART 137 - Illustration 3 credit hours
- ART 145 - Ceramics 1 3 credit hours
- ART 160 - Video 1 3 credit hours
- ART 166 - Graphic Design 1 3 credit hours
- ART 170 - Web Design 1 3 credit hours
- ART 251 - Animation 1 3 credit hours
- ART 252 - Animation 2 3 credit hours
- ART 262 - Image & Design 3 credit hours

Technology Requirement: 3 credits

- ART 106 - Introduction to Digital Design 3 credit hours

Electives: 4 credits

Recommend students check on transfer institution's requirements. No more than 3 credits of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by ART 106.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of this program, students will be able to:

1. Effectively communicate visual ideas and concepts.
2. Produce game assets using industry standard hardware and software.
3. Discuss game development history, testing, and interactivity.
4. Identify game disciplines.
5. Apply the game development process.
6. Discuss historical trends as they relate to game art and design.
7. Evaluate visual objects using design and art theories and principles.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Transfer - Art History and Museum Studies (A.A.)
- Visual Arts Transfer - Graphic and Web Design (A.A.)
- Visual Arts Transfer - Photography (A.A.)
- Visual Arts Transfer - Studio Arts (A.A.)

Transferring Credits to a Maryland Public Four-Year School

Maryland public four-year colleges and universities accept a minimum of 60 and as many as 70 credits earned toward an associate degree from a Maryland public community college. Students planning to transfer should consult with an AACC academic and transfer advisor; and are advised to obtain permission from the four-year college or university when planning to transfer credits beyond the minimum degree requirements at AACC. More than 70 credits earned at AACC may be transferred if outlined within an established transfer agreement. Current transfer agreements can be found on the AACC Transfer Partners webpage.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Visual Arts Transfer - Graphic and Web Design (A.A.)

Official Title of Major: Visual Arts Transfer - Graphic and Web Design, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.VSL.GRPH-WEB

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Purpose: Prepares students for transfer to a four-year web or graphic design program at a traditional or art school. After graduation from a transfer institution, students will be eligible for an entry level position in the web or graphic design industry. Students should work closely with the Graphic Design and Web Design faculty to identify potential transfer schools. Students who already have a degree, wish to get a job after completion of only an associate degree, or wish to focus on just visual design, should check out the Visual Arts Professional A.A.S. Graphic Design, and Visual Arts Web Design Area of Concentrations and Certificates.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Online Degrees and Credit Certificates

This program can be completed fully online. Some online courses may require proctored exams or on-campus assessments at a testing center.

Visual Arts Transfer Degree Program Requirements

The program core for this degree consists of ART 100 (satisfied through the Arts & Humanities General Education Requirement as listed below); ART 106 (satisfied through the Technology Requirement as listed below); and ART 125 (satisfied through the area of concentration requirement as listed below).

Students must complete all of these courses with a grade of C or better.

General Education Requirements: 31 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 6 credits

- ART 100 - Two-Dimensional Design 3 *credit hours*
- ART 209 - History of Western Art: Ancient to Medieval 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 6 credits

Must select two different disciplines. See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Wellness: 3 credits

Must select from list of approved General Education Wellness Courses.

Area of Concentration: 29 credits

Required Courses: 13 credits

- ART 120 - Digital Photography 1 3 *credit hours*
- ART 125 - Drawing 1 3 *credit hours*
- ART 210 - History of Western Art: Renaissance to Present 3 *credit hours*
- ART 166 - Graphic Design 1 3 *credit hours*
OR
- ART 170 - Web Design 1 3 *credit hours*

- ART 230 - Art Portfolio Development 1 credit hour
 - OR**
 - ART 250 - Digital Portfolio Development 1 credit hour
- Please see department chair for ART 230 or ART 250 class recommendation.*

Choose three courses from the following: 9 credits

Students transferring to UMBC should consider ART 160 as an elective.

- ART 102 - Three-Dimensional Design 3 credit hours
- ART 103 - Color 3 credit hours
- ART 121 - Darkroom Photography 1: Black & White 3 credit hours
- ART 137 - Illustration 3 credit hours
- ART 160 - Video 1 3 credit hours
- ART 161 - Video Editing 3 credit hours
- ART 166 - Graphic Design 1 3 credit hours
- ART 170 - Web Design 1 3 credit hours
- ART 200 - Drawing 2 3 credit hours
- ART 236 - Digital Photography 2 3 credit hours
- ART 264 - Fundamentals of Typography 3 credit hours
- ART 266 - Graphic Design 2 3 credit hours
- ART 269 - Responsive Web Design 3 credit hours
- ART 270 - Web Design 2 3 credit hours

Technology Requirement: 3 credits

- ART 106 - Introduction to Digital Design 3 credit hours

Electives: 4 credits

Recommend students check on transfer institution's requirements. No more than 3 credit hours of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by ART 106.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of the Visual Arts Transfer - Graphic & Web Concentration, students will be able to:

1. Apply elements and principles of design to the creation of original design and art projects.

2. Use a variety of media to solve design problems.
3. Examine both personal and client points of view in digital and print designs.
4. Effectively use industry standard technologies to express visual ideas.
5. Evaluate and apply the primary historical periods and cultural trends in art and design.
6. Develop a portfolio of design work that demonstrates quality in concept, vision, and execution.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Transfer - Art History and Museum Studies (A.A.)
- Visual Arts Transfer - Game Art and Design (A.A.)
- Visual Arts Transfer - Photography (A.A.)
- Visual Arts Transfer - Studio Arts (A.A.)

Transferring Credits to a Maryland Public Four-Year School

Maryland public four-year colleges and universities accept a minimum of 60 and as many as 70 credits earned toward an associate degree from a Maryland public community college. Students planning to transfer should consult with an AACC academic and transfer advisor; and are advised to obtain permission from the four-year college or university when planning to transfer credits beyond the minimum degree requirements at AACC. More than 70 credits earned at AACC may be transferred if outlined within an established transfer agreement. Current transfer agreements can be found on the AACC Transfer Partners webpage.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Visual Arts Transfer - Photography (A.A.)

Official Title of Major: Visual Arts Transfer - Photography, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.VSL.PHOTO

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Photography Program

Purpose: In a world saturated by images, photography has become a language of our modern culture. With that in mind, students in the photography program at Anne Arundel Community College will learn to create more expressive and engaging photographs. A wide variety of beginning and advanced courses in both digital and analog photography allow students to explore the many creative possibilities the medium has to offer while also gaining a strong technical foundation in the craft.

Upon completing the photography concentration students are able to transfer to a four-year institution or go straight into the field. Possible professions include a wide variety of applied and creative professions, including but not limited to editorial photographer, studio photographer and fine art photographer.

Students must have a DSLR camera with manually adjustable f-stop and shutter speed controls.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Visual Arts Transfer Program Core Courses

The program core for this degree consists of ART 100 (satisfied through the Arts and Humanities general education requirement as listed below); ART 106 (satisfied through the Technology Requirement as listed below); and ART 125 (satisfied through the area of concentration requirement as listed below).

Students must complete all of these courses with a grade of C or better.

General Education Requirements: 31 credits

An approved list of general education courses can be found in the General Education Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement

Arts and Humanities: 6 credits

- ART 100 - Two-Dimensional Design 3 *credit hours*
AND
- ART 209 - History of Western Art: Ancient to Medieval 3 *credit hours*
OR
- ART 210 - History of Western Art: Renaissance to Present 3 *credit hours*

Biological and Physical Sciences: 7 credits

At least one lab science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 6 credits

Must select two different disciplines. See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirement: 3 credits

- **Wellness Requirement 3 credit hours**
See General Education Wellness Requirement for a list of approved courses.

Area of Concentration: 29 credits

Students must complete all of these courses with a grade of C or better.

Required Photography Courses: 16 credits

- ART 120 - Digital Photography 1 3 credit hours
- ART 121 - Darkroom Photography 1: Black & White 3 credit hours
- ART 212 - History of Photography 3 credit hours
- ART 231 - Photography Portfolio Development 1 credit hour
- ART 236 - Digital Photography 2 3 credit hours

And, choose one of the following:

- ART 237 - Photojournalism 3 credit hours
- ART 238 - Alternative Photographic Process 3 credit hours
- ART 239 - Techniques of Photographic Lighting 3 credit hours
- ART 278 - Color Darkroom Practicum 3 credit hours

Additional Art Requirements: 6 credits

- ART 125 - Drawing 1 3 credit hours

And, choose one of the following:

- ART 102 - Three-Dimensional Design 3 credit hours
- ART 131 - Painting 1 3 credit hours
- ART 160 - Video 1 3 credit hours
- ART 161 - Video Editing 3 credit hours
- ART 166 - Graphic Design 1 3 credit hours
- ART 200 - Drawing 2 3 credit hours
- ART 237 - Photojournalism 3 credit hours
- ART 238 - Alternative Photographic Process 3 credit hours
- ART 239 - Techniques of Photographic Lighting 3 credit hours
- ART 262 - Image & Design 3 credit hours
- ART 278 - Color Darkroom Practicum 3 credit hours

Technology Requirement: 3 credits

- ART 106 - Introduction to Digital Design 3 credit hours

Electives: 4 credits

Students are recommended to check on transfer institution's requirements before selecting electives. No more than 3 credit hours of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by ART 106.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of the Photography Concentration, students will be able to:

1. Explain visual arts history, processes, and terminology.
2. Apply elements and principles of visual design in creation of original imagery.
3. Apply principles of photographic image capture, manipulation, print, and production.
4. Develop a personal portfolio to present at interviews for both transfer and job-related activities.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Transfer - Art History and Museum Studies (A.A.)
- Visual Arts Transfer - Game Art and Design (A.A.)
- Visual Arts Transfer - Graphic and Web Design (A.A.)
- Visual Arts Transfer - Studio Arts (A.A.)

- Photography (certificate)

Transferring Credits to a Maryland Public Four-Year School

Maryland public four-year colleges and universities accept a minimum of 60 and as many as 70 credits earned toward an associate degree from a Maryland public community college. Students planning to transfer should consult with an AACC academic and transfer advisor; and are advised to obtain permission from the four-year college or university when planning to transfer credits beyond the minimum degree requirements at AACC. More than 70 credits earned at AACC may be transferred if outlined within an established transfer agreement. Current transfer agreements can be found on the AACC Transfer Partners webpage.

Career and Educational Advancement Resources

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Visual Arts Transfer - Studio Arts (A.A.)

Official Title of Major: Visual Arts Transfer - Studio Arts, A.A.

Award: Associate of Arts degree, A.A.

Code: AA.VSL.STUDIO-ART

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Studio Arts Program

Purpose: Provides the fundamental foundation in the visual arts to prepare students for transferring to a 4-year college, university or art school to pursue a bachelor's degree in the visual arts. In addition to the ability to transfer credits toward a bachelor's degree at a 4-year school students would have the skills to pursue entry-level positions in art galleries, community arts education and apprenticeships or internships with professional artists.

Students' options after completing their transfer degree are dependent on the educational pathway and degree or certificate program that the student selected. The options are many. Some options might include working as an independent studio artist, teaching in the studio arts field and working in a gallery or museum.

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Honors Program Courses

If you qualify for the Honors Program, you may take honors versions of some courses (such as ENG 101H, ENG 102H, etc.).

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

Visual Arts Transfer Program Core Courses

The program core for this degree consists of ART 100 (satisfied through the Arts and Humanities general education requirement as listed below); ART 106 (satisfied through the technology requirement as listed below); and ART 125 (satisfied through the area of concentration requirement as listed below).

Students must complete all of these courses with a grade of C or better.

General Education Requirements: 31 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 credit hours
 - ENG 102 - Academic Writing and Research 2 3 credit hours
- ENG 101 and ENG 101A are equivalent courses. Students may take ENG 101-ENG 102 or ENG 101A-ENG 102 to meet their English Composition General Education requirement.*

Arts and Humanities: 6 credits

- ART 100 - Two-Dimensional Design 3 credit hours
- ART 209 - History of Western Art: Ancient to Medieval 3 credit hours

Biological and Physical Sciences: 7 credits

At least one lab science required. See General Education Biological and Physical Sciences Requirements for a list of approved courses.

Mathematics: 3 credits

See General Education Mathematics Requirements for a list of approved courses.

Social and Behavioral Sciences: 6 credits

Must select two different disciplines. See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Additional General Education Requirement: 3 credits

- **Wellness Requirement** 3 credit hours

See General Education Wellness Requirements for list of approved courses.

Area of Concentration: 29 credits

Students must complete all of these courses with a grade of C or better.

Required Courses: 13 credits

- ART 102 - Three-Dimensional Design 3 credit hours
- ART 125 - Drawing 1 3 credit hours
- ART 200 - Drawing 2 3 credit hours
- ART 210 - History of Western Art: Renaissance to Present 3 credit hours
- ART 230 - Art Portfolio Development 1 credit hour

Choose three courses from the following: 9 credits

- ART 103 - Color 3 credit hours
- ART 120 - Digital Photography 1 3 credit hours
- ART 121 - Darkroom Photography 1: Black & White 3 credit hours
- ART 131 - Painting 1 3 credit hours
- ART 135 - Sculpture 1: Clay Modeling and Mixed Media 3 credit hours
- ART 137 - Illustration 3 credit hours
- ART 138 - Metal Art Fabrication 3 credit hours
- ART 142 - Portraiture 1 3 credit hours
- ART 145 - Ceramics 1 3 credit hours
- ART 146 - Ceramics 2 3 credit hours
- ART 148 - Intaglio Printmaking 1 3 credit hours
- ART 202 - Life Drawing 3 credit hours
- ART 232 - Painting 2 3 credit hours
- ART 234 - Painting and Abstraction 3 credit hours
- ART 235 - Sculpture 2 3 credit hours
- ART 236 - Digital Photography 2 3 credit hours
- ART 238 - Alternative Photographic Process 3 credit hours
- ART 246 - Screen Printing 3 credit hours
- ART 247 - Lithographic Printmaking 3 credit hours
- ART 262 - Image & Design 3 credit hours

Technology Requirement: 3 credits

- ART 106 - Introduction to Digital Design 3 credit hours

Electives: 4 credits

Recommend students check on transfer institution's requirements. No more than 3 credit hours of physical activity courses may be used as electives.

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by ART 106.

Wellness Requirement

Unless they are in a degree that is exempt, all students in associate degree programs must satisfy the Wellness Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Program Outcomes

Upon successful completion of the Studio Arts Concentration, students will be able to:

1. Apply the principles of design to the creation of works of art.
2. Use different media to solve design problems and express a personal point of view.
3. Use industry standard technologies to create and present works of art.
4. Describe the primary historical periods and cultural trends in art.
5. Apply critical thinking skills to written and verbal communication about art.
6. Develop a personal portfolio of artwork that demonstrates a cohesive vision.

This program aligns with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Visual Arts Transfer - Art History and Museum Studies (A.A.)
- Visual Arts Transfer - Game Art and Design (A.A.)
- Visual Arts Transfer - Graphic and Web Design (A.A.)
- Visual Arts Transfer - Photography (A.A.)

Transferring Credits to a Maryland Public Four-Year School

Maryland public four-year colleges and universities accept a minimum of 60 and as many as 70 credits earned toward an associate degree from a Maryland public community college. Students planning to transfer should consult with an AACC academic and transfer advisor; and are advised to obtain permission from the four-year college or university when planning to transfer credits beyond the minimum degree requirements at AACC. More than 70 credits earned at AACC may be transferred if outlined within an established transfer agreement. Current transfer agreements can be found on the AACC Transfer Partners webpage.

Career and Educational Advancement Resources

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Visual Arts, Painting (lor)

Official Title of Letter of Recognition: Visual Arts, Painting, Letter of Recognition

Award: Letter of Recognition

Total Credit Hours: A minimum of 10

Visit www.aacc.edu to learn more about the Visual Arts and Humanities Department

Purpose: This course sequence is designed for students who wish to display a concentrated knowledge of painting practices in professional exhibitions, who wish to assemble a painting transfer portfolio, or who are interested in personal enrichment in this area.

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Requirements: 10 credits

- ART 131 - Painting 1 3 *credit hours*
- ART 232 - Painting 2 3 *credit hours*
- ART 250 - Digital Portfolio Development 1 *credit hour*

Electives (select one from the following with approval department chair): 3 credits

- ART 233 - Painting 3 3 *credit hours*

Award Requirements

Completion of each of the required courses with a grade of C or better. Students must apply to the Records and Registration office for the letter of recognition after they have completed the requirements.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Web and Mobile Application Development (A.A.S.)

Official Title of Major: Web and Mobile Application Development, A.A.S.

Award: Associate of Applied Science degree, A.A.S.

Code: AAS.CPS.WEB-MOB-DEV

Total Credit Hours: 60

Visit www.aacc.edu to learn more about the Computer Science Department

Purpose: Prepares students for careers requiring a strong background in computer technology. Covers fundamental concepts in software development, web application development, mobile device application development, and back-end server development.

Emphasizes the development expertise in software development using multiple development languages. Emphasizes the roles and responsibilities of individuals delivering content on browsers and mobile devices.

Range of Occupations:

- Front end Developer
- Back end Developer
- Internet/Web Applications Developer
- Mobile Applications Developer
- Software Developer
- PHP Developer
- Web Content Manager

Visit www.catalog.aacc.edu for the following Approximate Cost information

- Credit Costs (approximate, minimum cost of two-years \$8,800 full time at AACC)
- How to Figure Your Cost Worksheet

Graduation Requirements

Refer to Academic Regulations on Graduation Requirements for college-wide graduation requirements.

General Education Requirements: 18 credits

An approved list of general education courses can be found in the General Education and Diversity, Technology and Wellness Requirements section of the catalog. Choose general education courses from the following topics:

English Composition: 6 credits

- ENG 101 - Academic Writing and Research 1 3 *credit hours*
- ENG 102 - Academic Writing and Research 2 3 *credit hours*
ENG 101A and ENG 101 are equivalent courses. Students may take ENG 101A-ENG 102 or ENG 101-ENG 102 to meet their English Composition General Education requirement.

Arts and Humanities: 3 credits

See General Education Arts and Humanities Requirements for a list of approved courses.

Biological and Physical Sciences: 3 credits

- BIO 135 - Principles of Nutrition 3 *credit hours*
BIO 135 satisfies the college Wellness Requirement. If you have already satisfied the college Wellness Requirement, you may elect to take any Biological and Physical Sciences General Education Requirement course. Please contact the Computer Science department for more information.

Mathematics: 3 credits

- MAT 145 - Precalculus 1 3 *credit hours*
Or more advanced level if qualified.

Social and Behavioral Sciences: 3 credits

See General Education Social and Behavioral Sciences Requirements for a list of approved courses.

Program Requirements: 31 credits

Students must complete all of these with a grade of C or better.

- ART 170 - Web Design 1 3 credit hours
- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 credit hours
CTP 115 also meets the Technology General Education requirement.
- CTP 118 - Web Development using HTML/CSS 4 credit hours
- CTP 130 - Programming in PHP/MySQL 3 credit hours
- CTP 135 - Programming in JavaScript and jQuery 4 credit hours
- CTP 140 - Database Foundations, SQL/NoSQL 3 credit hours
- CTP 150 - Computer Science 1 4 credit hours
- CTP 236 - Advanced JavaScript 3 credit hours
- CTP 237 - Server-Side Development 3 credit hours

Program Electives: 11 credits

Students must complete a minimum of 10 credit hours from the following list with a grade of C or better. One hour of general electives may be taken to meet the 60 hours required for graduation.

- ART 268 - User Experience Design for the Web 3 credit hours
- ART 269 - Responsive Web Design 3 credit hours
- CTP 220 - Content Management Systems 3 credit hours
- CTP 230 - Android Programming 4 credit hours
- CTP 232 - iPad/iPhone iOS Programming 1 4 credit hours

Diversity Requirement

All students in associate degree programs must satisfy the Diversity Requirement. In many cases, students may satisfy this requirement simultaneously as they satisfy a general education course requirement or with an elective.

Technology Requirement

Satisfied by CTP 115.

Wellness Requirement

Satisfied by BIO 135.

Fast Track Option

These programs have Fast Track Options for those holding a college degree.

Program Outcomes

Upon successful completion of the Web and Mobile Application Development degree, students will be able to:

1. Summarize the process of serving a webpage and how the browser renders code
2. Build front-end websites with static and dynamic Web pages
3. Create back-end server with RESTful routes to support full-stack applications
4. Implement user authentication schemes needed to incorporate different types of databases
5. Develop apps while applying the accepted best practices for software development

These programs align with the college's core competencies.

Related Offerings

Students may wish to also review requirements for the related majors or programs linked below.

- Full-Stack Web Development (certificate)

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Web Design (certificate)

Official Title of Certificate: Web Design, Certificate

Award: Certificate

Code: CRT.VSL.WEB-DESIGN

Total Credit Hours: 31-32

Visit www.aacc.edu to learn more about the Web Design program

Purpose: The web design certificate is intended for professionals already holding a two- or four-year degree who wish to make a career change or update skills in the web design industry. Professionals with a traditional background in print design hoping to expand into the web arena may also benefit from the certificate in web design. Credits earned for the certificate may be applied to the Visual Arts Professional AAS Web Design Area of Concentration. The program provides an introduction to the design process from concept to completion, as well as allowing the student to choose an additional area of focus: marketing or programming. This certificate is not a substitute for a degree in web or interactive design.

Range of Occupations

- Entry-level web designer
- Junior web designer
- Web design intern
- Freelance web designer

Special Conditions

Financial Aid: This program has not been approved by the U.S. Department of Education for eligibility for federal student aid. Students enrolled in this program may not be eligible to receive financial aid from the U.S. Department of Education (Pell Grants, SEOG, Federal Work-Study, Direct Loans or PLUS loans) or the Maryland Higher Education Commission (Educational Assistance Grants, Senatorial Scholarships or Delegate Scholarships). For current information on eligible programs, contact Financial Aid by calling 410-777-2203, emailing finaid@aacc.edu or stopping by a Financial Aid office.

Certificate Graduation Requirements

To graduate with a certificate, students must have demonstrated eligibility for ENG 101 or ENG 101A. Refer to Academic Regulations on Graduation Requirements.

Certificate Requirements: 31-32 credits

- ART 100 - Two-Dimensional Design 3 *credit hours*
 - ART 106 - Introduction to Digital Design 3 *credit hours*
 - ART 166 - Graphic Design 1 3 *credit hours*
- OR**

- ART 264 - Fundamentals of Typography 3 *credit hours*
- ART 268 - User Experience Design for the Web 3 *credit hours*
- ART 170 - Web Design 1 3 *credit hours*
- ART 250 - Digital Portfolio Development 1 *credit hour*
- ART 269 - Responsive Web Design 3 *credit hours*
- ART 270 - Web Design 2 3 *credit hours*
- ART 275 - Digital Arts Internship 3 *credit hours*

Select two courses from the following: 6-7 credits

- ART 120 - Digital Photography 1 3 *credit hours*
- BPA 127 - Digital Marketing and Analytics 3 *credit hours*
- CTP 118 - Web Development using HTML/CSS 4 *credit hours*

Program Outcomes

Upon successful completion of the Web and Interactive Design Certificate, students will be able to:

1. Apply the principles and elements of design to communicate information on the web in a visually compelling, user-centered manner.
2. Write standards-compliant HTML and CSS that is semantically correct.
3. Apply the appropriate file formats, resolutions, and export parameters when creating images for the web.
4. Effectively research and communicate the business goals and user needs of a web site via industry-standard user experience documents.
5. Design and code web pages that are effective on multiple screen sizes and unique user contexts.
6. Present concepts to clients clearly and professionally in both verbal and written form.
7. Apply JavaScript elegantly and efficiently to enhance the user experience.

This program aligns with the college's core competencies.

Career and Educational Advancement Resources

Visit www.catalog.aacc.edu for Career, Workforce Certifications, Education, and Transfer Resources information

Courses

Academic Literacies

ACL 040 - Academic Literacies

5 equivalent hours - Five hours weekly; one term.

Explore and critically evaluate a variety of academic texts. Identify, discuss, and write about abstract ideas from a variety of complex academic texts. Expand and connect readings to other meaningful texts, to the world, and to lived experiences. Develop an understanding of the writing process in order to produce authentic academic writing, thus preparing students for success in college level reading and writing. Prereq(s): *Appropriate placement into ACL 040.*

Note: *ACL 040 is offered in an accelerated format, allowing students to complete their developmental reading and English requirements in one semester. A grade of at least C is required to enroll in ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Apply metacognitive awareness to the learning, reading, and writing processes.
2. Use pre-reading techniques to help facilitate understandings of a variety of academic texts.
3. Apply active reading strategies.
4. Identify and discuss abstract ideas from readings.
5. Use academic written English.
6. Apply the writing processes.
7. Use proper essay structure.
8. Differentiate between personal ideas and those of an author.

ACL 080-099 - Special Topics in Reading

1-5 credit hours -

An intensive study of current or specialized themes or topics in reading. Some courses may require placement testing and/or prerequisites.

Achieving College/Career Advancement

ACA 100 - Student Success Seminar

1 credit hour - Fifteen hours; one term

Identify and examine college support services, faculty expectations, and academic planning. Investigate and practice the habits of successful students such as study skills, note taking and time management. Identify learning strategies, explore career pathways, and set goals. Develop an academic plan and tools to facilitate academic success in a diverse learning environment. Location(s) Typically Offered: *Arnold Main Campus (MC) and Online (OL)* Term(s) Typically Offered: *All terms*

Course Outcomes

1. Investigate and develop habits for academic success.
2. Identify and evaluate AACC college support services.
3. Create an educational and career plan.

ACA 110 - Achieving Success in the Online Classroom

1 credit hour - 15 hours; one term

Distinguish the differences between learning in a physical classroom and a virtual one. Discover the learning management system and available online resources. Identify the strategies that make a learner successful in the online environment. Note: *This course is intended for students who are new to online learning.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Analyze online learning

Use the learning management system to facilitate completion of coursework.

Determine the availability of online resources

Identify the strategies that make a learner successful in the online environment
Develop and practice communication techniques

ACA 120 - Achieving Career Success

1 credit hour - 15 hours; one term

Develop a cadre of skills that facilitate career success in diverse working environments. Identify, explain, and demonstrate professional expectations in a chosen career field. Plan and organize a job search strategy consistent with goals and professional credentials. Communicate effectively verbally, nonverbally, and in writing for a simulated job interview. Note: *The course is intended for students who are graduating with a career degree.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Identify, explain, and demonstrate professional expectations in chosen field.
Plan and organize a job search strategy consistent with personal goals and credentials.
Identify suitable job opportunities through online resources and networking.
Communicate effectively verbally, nonverbally, and in writing about own knowledge, skills and abilities relative to a simulated company and potential employers' needs.
Develop tools to facilitate career readiness in diverse working environments.

ACA 200 - Portfolio Assessment

1 credit hour -

Create a portfolio of prior learning that demonstrates knowledge acquired in nonacademic settings to AACC content experts for possible credits in targeted courses. Develop educational and career plans, analyze and match acquired learning experiences with course learning objectives and provide supporting documentation. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Infrequently

Course Outcomes

Explain prior learning assessment

What you will learn as you master the competency:
Identify methods of prior learning assessment
Distinguish the difference between a portfolio of prior learning assessment and traditional portfolios
Describe the characteristics of college-level learning
Validate the choice of the AACC course challenged for PLA
Identify the components of a portfolio of prior learning assessment

Explain portfolio development

What you will learn as you master the competency:
Identify the steps in portfolio development
Describe a learning chronology
Discover areas of significant learning based on responsibility and roles in one's life
Create a personal learning chronology

Analyze previous learning in terms of competency statements

What you will learn as you master the competency:
Describe a prior learning narrative
Identify learning outcomes of the challenged course using course descriptions, key topics or syllabus.
Compare and critique one's college-level learning related to course learning outcomes

Employ documentation to verify learning

What you will learn as you master the competency:
Identify categories of supporting documentation
Describe the difference between direct and indirect sources of learning documentation
Describe the documentation gathered and interpret how it demonstrates learning

Prepare a portfolio documenting college-level learning

What you will learn as you master the competency:
Evaluate life experience(s) that resulted in college-level learning.
Validate learning in terms of key concepts, terms or theoretical models.

African American Studies

AFA 101 - Introduction to African American Studies

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Presents an overview of history, culture, religion, institutions, politics, economics, arts and psychology of peoples of African descent as developed from experience and both the old and new worlds. Multidisciplinary analysis of social life from an African-American perspective as illustrated in selected historical and contemporary writings. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as AMS 101; credit is not given for both AFA 101 and AMS 101.*

Location(s) Typically Offered: Online (OL)

Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply different theoretical approaches to issues of race, ethnicity and socialization
- Analyze the ways in which particular institutions have responded to communities of African ancestry in the United States.
- Analyze the ways in which race is socially and culturally constructed
- Evaluate the situation of Blacks in education, medicine and the health industry, religion, the arts, media, the workplace, and the law and public policy.
- Explain the relationship between the individual blacks experience and the collective black experience.

AFA 102 - Psychology of African Americans

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Explore basic theoretical and philosophical perspectives in the field of African-American psychology. Review history of African Americans and impact of historical events on the psychological well-being of African Americans. Discuss racism and discrimination and its impact on the African-American family, the education and achievement of African Americans, African-American identity development and other pertinent issues relevant to the lifestyles of African Americans. Crosslisted: *Also offered as PSY 102; credit is not given for both AFA 102 and PSY 102.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

- Identify theories and perspectives in the field of African American psychology.
- Identify historical events that impacted the psychological well-being of African Americans.
- Discuss the impacts of racism and oppression on the lives of African Americans.
- Discuss how different relationships influence the development of African Americans.
- Explain the process of African American identity development.
- Identify issues and achievements in education among African Americans.
- Describe cultural influences in the lifestyles of African Americans.
- Describe factors relevant to understanding health among African Americans.
- Describe factors that raise consciousness and strengthen African Americans psychologically, spiritually, and physically.

AFA 214 - African American History

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Evaluate significant contributions made by African Americans to the American past. Gain oral and visual impressions of important issues and personalities of our nation's African American heritage through media presentations. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as HIS 214; credit is not given for both AFA 214 and HIS 214.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Demonstrate an ability to carry out historical analysis and research.

Recognize the major historical contributions and the notable black Americans associated with them.
Critically evaluate competing historical theories in terms of their respective claims about the human condition.
Defend a position of your own using the argumentation/writing skills developed in this class.
Contrast the parallels of historical events with current events as related to African American History.

AFA 225 - African American Literature

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Explore the poetry, fiction, nonfiction, and drama of African Americans of the United States from the 18th century to the present. Study major literary, political, and social currents that inspired this writing Prereq(s): *Eligibility for ENG 101/ENG 101A or permission of the department.* Crosslisted: *Also offered as AFA 225H, ENG 225, and ENG 225H; credit is given for only one of the following: AFA 225, AFA 225H, ENG 225 or ENG 225H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and explain the elements of African American literature from its beginnings to the present;
- Explain elements of African literature found in African American literature;
- Identify and explain important works written by African American authors;
- Explain the relationship of African American literature to its social, intellectual, and cultural backgrounds;
- Trace the changes in theme, style, and form employed by African American writers;
- Write analytically about African American literature
- Practice close textual analysis through application of critical reading skills.

AFA 225H - African American Literature -Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Explore the poetry, fiction, nonfiction and drama of African Americans of the United States from the 18th century to the present. Study major literary, political, and social currents that inspired this writing. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of the department chair.* Crosslisted: *Also offered as AFA 225, ENG 225 and ENG 225H; credit is given for only one of the following: AFA 225, AFA 225H, ENG 225 or ENG 225H.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and explain the elements of African American literature from its beginnings to the present;
- Explain elements of African literature found in African American literature;
- Identify and explain important works written by African American authors;
- Explain the relationship of African American literature to its social, intellectual, and cultural backgrounds;
- Trace the changes in theme, style, and form employed by African American writers;
- Write analytically about African American literature
- Practice close textual analysis through application of critical reading skills.

AFA 228 - African American Art

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Study African American visual arts encompassing African art forms, the arts of the African Diaspora and varied work of African American artists. Lectures and discussions will be supplemented by trips to museums in the Baltimore-Washington area. No previous art courses are necessary. Crosslisted: *Also offered as ART 228; credit is not given for both AFA 228 and ART 228.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Explain how the African American experience is expressed in the visual arts.
Evaluate the characteristics of African American art in their relationship to cultural traditions, including those of Western Europe, Africa and the Caribbean.
Evaluate the role of African American art as a means of expressing individual and cultural struggles for cultural identity and social equality.
Apply appropriately the materials, methods, vocabulary, and concepts of art and art history.

AFA 280 - Special Topics in African American Studies

3 credit hours - Three hours weekly; one term.

An intensive study of current or specialized themes or topics in African American studies. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Allied Health

AHT 280 - Special Topics in Allied Health Technology

4 credit hours - One to four hours weekly; one term.

An in-depth study of contemporary issues that meets changing needs and interests of students. Provides an opportunity to explore topics that affect current health care philosophies, directions, practices and challenges not covered in other traditional courses. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$10-50.

American Studies

AMS 100 - Introduction to American Studies

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. Learn American culture and its many expressions. Investigate the various ways the American experience has been described from the earliest explorations to the present. Examine primary ideas and themes in the development of American culture through participation and observation. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Identify the disciplinary foundations of American Studies.
2. Contrast competing notions of American identity.
3. Synthesize scholarship from many disciplines with non-academic writing.
4. Evaluate the utility of considering America to be an empire, while examining the anxieties that are associated with this concept.

AMS 101 - Introduction to African American Studies

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement.

Presents an overview of history, culture, religion, institutions, politics, economics, arts and psychology of peoples of African descent as developed from experience and both the old and new worlds. Multidisciplinary analysis of social life from an African-American perspective as illustrated in selected historical and contemporary writings. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as AFA 101; credit is not given for both AMS 101 and AFA 101.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply different theoretical approaches to issues of race, ethnicity and socialization
- Analyze the ways in which particular institutions have responded to communities of African ancestry in the United States.
- Analyze the ways in which race is socially and culturally constructed

Evaluate the situation of Blacks in education, medicine and the health industry, religion, the arts, media, the workplace, and the law and public policy.

Explain the relationship between the individual blacks experience and the collective black experience.

AMS 102 - Introduction to Masculinity Studies

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Explore issues in the lives of American men. Investigates the interdisciplinary field of masculinity studies by examining contemporary theories of masculinity, changes in the definitions of masculinity in different periods of American history, the sociology and psychology of men's experiences, and gender and sexuality as organizing features of men's lives. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as GSS 102 and SOC 102; credit is given for only one of the following: AMS 102, GSS 102 or SOC 102*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Use an interdisciplinary approach to evaluate and synthesize scholarship on gender.
2. Apply different theoretical approaches to issues of gender and socialization.
3. Explain how cultural, social, political, and historical forces shape gender roles and gender relations.
4. Discuss the effect of diversity on the American government and economy.
5. Describe how gender roles and relations are socially and culturally constructed with attention to gender-defining social institutions.
6. Explain how gender stereotypes are reproduced and resisted through the process of socialization with attention to various agents of socialization including the family, peer groups, media, and schools.

AMS 121 - Popular Culture in America

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. Examine American beliefs, values, and attitudes as they are reflected in such institutions and leisure pursuits as motion pictures, television, radio, music, sports, politics, and lifestyles. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

1. Apply critical thinking skills to analyze the culture industries.
2. Contrast the ability of traditional "high" culture vs. popular culture to introduce outsider voices into mainstream American culture.
3. Evaluate several perspectives on popular culture and identity formation, including race, class, gender, sexuality, disability, and globalization.
4. Analyze local popular culture phenomena by applying seminal popular culture studies theories.
5. Evaluate the impact of media ownership upon the popular culture that we consume.

AMS 123 - Sports in America

3 credit hours - Three hours weekly; one term.

Examine the role, function and significance of sports and their impact on the hearts and minds of Americans. Research topics such as myth and legends, rituals and ceremonies, women and sports, amateurs and professionals, the business of sports and sports as a secular religion. Crosslisted: *Also offered as SPT 123; credit is not given for both AMS 123 and SPT 123*.

Course Outcomes

Develop an understanding of American sports history as academic inquiry.

Understand intersection between historical events and sports.

Identify historical trends as they relate to diversity issues in sports.

Examine the relationship between sports and national identity.

Examine class issues in sports.

Assess areas of class as it relates to sports preferences.

Examine the impact of immigration on sports.

Explain the connection between socioeconomic and class issues in the popularity of sporting events.

Examine the influence of race on sports.

Understand the role of sports during slavery, Jim Crow, segregation, and in the modern era.
Examine the dynamics of race within amateur and professional sports.
Observe the impact of race in the marketing of sports.

Examine the influence of gender on sports.

Examine historical perspectives of women in sports.
Identify important influences on the advancement of women in sports.
Assess the impact of sexism within the marketing of sports.

Identify the role that sports play within a geopolitical framework.

Dissect the interplay between sports and politics on a local and national scale.
Examine nationalism as a concept that appears within sporting events.
Develop a further understanding about the meaning of sports within American history.

Examine the role of the media in sports.

Understand the impact of newspapers, radio, and television on the popularity of sports.
Assess the media's role in the creation of sports heroes.
Examine the use of sports-related ideas in other venues.

AMS 181 - Introduction to American Film

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study the complex relationship between American film and culture. Review and discuss the aesthetics and manifestation of film in American society. Crosslisted: *Also offered as ART 181; credit is not given for both AMS 181 and ART 181.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL)
Term(s) Typically Offered: Fall and spring

Course Outcomes

Apply an interdisciplinary perspective to the study of American film;
Discuss the development of the American film industry in terms of aesthetics, genres, narrative formulae, and themes;
Discuss the development of the American film industry in terms of the studio system, demographics, dominant personalities, politics, and morality;
Explain the ways in which social factors influence the depiction of American society in film;
Explain the ways in which American film influences society.

AMS 211 - Gender and Mass Media in the United States

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Learn principles of contemporary mass media scholarship. Examine how media creates and perpetuates constructions of masculinity and femininity and how these constructions relate to race, ethnicity, class, sexuality and other variables of difference. Explore the political economy of media production, the relationship between media and ideology and audience reception. Crosslisted: *Also offered as GSS 211; credit is not given for both AMS 211 and GSS 211.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Winter and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Analyze media representation through intersectional and interdisciplinary lenses.
Examine the ways in which culture reflects, creates, perpetuates, and/or resists social hierarchies and structural inequalities.
Explain the political economy of media production and dissemination in conversation with critical discussions of audience reception and consumption.

AMS 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Examine the diversity of lesbian, gay, bisexual and transgender (LGBT) behaviors, orientations, identities, communities, and issues from a trans-historical, cross-cultural and interdisciplinary perspective with special emphasis on LGBT culture in the United States. Study the history of human sexuality and gender identity/expression; cultural and social constructions of sexuality and gender; representations of LGBT experience in textual and visual media; legal rights and restrictions; current events and socio-political issues

of current interest; methods of queer theory/queer studies; and advocacy, activism and change. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as GSS 212 and SOC 212; credit is given for only one of the following: AMS 212, GSS 212 or SOC 212*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Use appropriate vocabulary to explain key concepts related to LGBT studies.
- Identify key debates over sexual identity with attention to the issues of power, privilege, and oppression.
- Discuss the influence of earlier academic and political movements in the development of LGBT studies, as well as the relationship between Gay and Lesbian Studies, Queer Studies, and Queer Theory.
- Analyze negative cultural images of LGBT people, the use of pop culture to establish an LGBT cultural identity, and the contributions by LGBT people to the arts.
- Discuss psychological, medical, and safety issues, as well as interventions in the lives of LGBT people.
- Discuss LGBT experiences in different global cultures and in different contexts within the US.
- Survey the major historical events in early LGBT history and trace the major events in recent US history.
- Discuss civil rights, safety, health, and work issues that affect LGBT people, and the potential remedies advocated by various LGBT movements.

AMS 223 - History of American Architecture

3 credit hours - Three hours weekly; one term.

An introduction to the development of American architecture, interior design, urban design and landscape architecture from pre-colonial times to the present. Particular attention will be paid to the old and new world sources of American design, as well as to the cultural, political, economic and environmental forces that have shaped the American built environment. Lectures and discussions will be supplemented by field trips. No previous art courses are necessary. Crosslisted: *Also offered as ACH 223 and ART 223; credit is given only one of the following: ACH 223, AMS 223 or ART 223*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Interpret the built environment as an expression of cultural beliefs, values and history.

- Discuss how different styles of architecture reflect social and political beliefs of the time.
- Explain how specific religious architecture reflects the tenets of the religion.

Demonstrate an understanding of the materials, structural principles, vocabulary and concepts of architectural history.

- Explain how a particular design works structurally.
- Describe how a particular design works visually.
- Explain the impact of available resources and technology on architectural structure.

Explain the influence of Old and New World cultures on American architecture.

- Explain how the Native American cultures influenced later American architectural forms.
- Explain what European cultures contributed to American architectural designs.

Demonstrate an understanding of the evolution of American architectural styles from the time of pre-colonial cultures to the present.

- Describe how our approaches to landscape architecture evolved from pre-colonial times to the present.
- Explain how American ideas about city planning have changed from colonial times to the present.
- Describe how American domestic architectural styles have evolved from pre-colonial times to the present.

Analyze the influence of environment, resources and new technology on the history of American architecture.

- Explain the history of industrial revolution influenced the history of American architecture.
- Explain how environmental factors influence architectural design.

Articulate the impact of American architectural ideas and theories on world architecture in the last fifty years.

- Explain the influence of American architects on residential architecture in European countries.
- Describe the impact of the International Style as developed in the United States on twentieth century global architecture.

AMS 224 - Introduction to Historic Preservation

3 credit hours - Three hours weekly; one term.

An introduction to the field of historic preservation, including its history, practices and philosophical and legal dimensions. Lectures

will be supplemented by field trips to local historic sites and preservation agencies. No previous art courses are necessary. Crosslisted: *Also offered as ART 224; credit is not given for both AMS 224 and ART 224.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

AMS 225 - Cultural Representations of Disability, Gender and Sexuality in the U.S.

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Explore the representations of disability in American popular culture. Analyze how gender and sexuality affect the representations of disability. Examine the connections between representations of oppressed groups in popular culture and the unequal distribution of economic, political and social power in the U.S. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as GSS 225 and SOC 225; credit is given for only one of the following: AMS 225, GSS 225 or SOC 225.*

Course Outcomes

- Demonstrate an understanding of cultural theory.**
- Demonstrate an understanding of the history of disability activism**
- Demonstrate an understanding of the history of disability representation.**
- Analyze cultural texts for messaging about disability, gender and sexuality.**
- Analyze the relationship between popular culture and social inequalities.**

AMS 280-299 - Special Topics in American Studies

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An intensive study of significant themes, motifs and ideas in American culture. Multidisciplinary methods are used to integrate history, literature, music, art, psychology, architecture and philosophy. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer issues, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Anthropology

ANT 120 - Introduction to Biological Anthropology

3 credit hours - Three hours weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Biological Anthropology is a branch of anthropology centered on the biological & behavioral aspects of humanity, our non-human primate "relatives," and our extinct hominin ancestors. This course will cover theories relating to biological evolution and its application to the human species. There is a specific focus on topics such as evolution, natural selection, primatology, paleoanthropology, biocultural adaptations, human variation, and current bioethical issues. Lastly, this course will introduce the scientific basis for examining how biological, physical, and cultural variations have allowed human populations to adapt to various physical environments around the world. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as ANT 120H; credit not given for both ANT 120 and ANT 120H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Compare and contrast Cultural Anthropology, Archaeology, and Biological Anthropology.
2. Explain and discuss the scientific theory of evolution and how it relates to human and non-human primate origins.
3. Compare and contrast the biological and behavioral components of hominids.
4. Discuss the theories of human origins using current fossil and genetic evidence.
5. Investigate and evaluate the concept of "race" from a biological and social perspective.
6. Critically analyze certain bioethical issues facing society today.

ANT 120H - Introduction to Biological Anthropology

3 credit hours - Three hours lecture weekly; one term.

This is an honors course. This course meets the Biological and Physical Sciences General Education Requirement. Biological Anthropology is a branch of anthropology centered on the biological & behavioral aspects of humanity, our non-human primate "relatives," and our extinct hominin ancestors. This course will cover theories relating to biological evolution and its application to the human species. There is a specific focus on topics such as evolution, natural selection, primatology, paleoanthropology, biocultural adaptations, human variation, and current bioethical issues. Lastly, this course will introduce the scientific basis for examining how

biological, physical, and cultural variations have allowed human populations to adapt to various physical environments around the world. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for Honors courses*. Crosslisted: *Also offered as ANT 120; credit not given for both ANT 120 and ANT 120H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Compare and contrast Cultural Anthropology, Archaeology, and Biological Anthropology.
2. Explain and discuss the scientific theory of evolution and how it relates to human and non-human primate origins.
3. Compare and contrast the biological and behavioral components of hominids.
4. Discuss the theories of human origins using current fossil and genetic evidence.
5. Investigate and evaluate the concept of "race" from a biological and social perspective.
6. Critically analyze certain bioethical issues facing society today.

ANT 121 - Introduction to Cultural Anthropology

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Explore the diversity that defines human experience and apply cross-cultural thinking to contemporary social problems. Introduce the concepts, theories, and methods of cultural anthropology with a focus on holism and cultural relativism. Using an ethnographic approach, examine various aspects of cultures across the globe, such as subsistence strategies, political organization, social identities and hierarchies, marriage, family and kinship systems, religious behavior, health, language, creative and artistic expressions, and issues of power in relation to colonialism, socio-economic discrimination, and global inequalities. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as ANT 121H; credit is not given for both ANT 121 and ANT 121H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Identify and explain key concepts, theories and debates in contemporary, cultural anthropology
Connect social and cultural practical practices to larger contexts of politics, economics and power
Apply anthropological perspectives to critique ethnocentric assumptions and to address contemporary, human problems
Effectively communicate anthropological findings learned in the course.

ANT 121H - Introduction to Cultural Anthropology Honors

3 credit hours - Three hours weekly; one term

This is an honors course. This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Explore the diversity that defines human experience and apply cross-cultural thinking to contemporary social problems. Introduce the concepts, theories, and methods of cultural anthropology with a focus on holism and cultural relativism. Using an ethnographic approach, examine various aspects of cultures across the globe, such as subsistence strategies, political organization, social identities and hierarchies, marriage, family and kinship systems, religious behavior, health, language, creative and artistic expressions, and issues of power in relation to colonialism, socio-economic discrimination, and global inequalities. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for Honors courses*. Crosslisted: *Also offered as ANT 121; credit is not given for both ANT 121 and ANT 121H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Identify and explain key concepts, theories and debates in contemporary, cultural anthropology
Connect social and cultural practical practices to larger contexts of politics, economics and power
Apply anthropological perspectives to critique ethnocentric assumptions and to address contemporary, human problems
Effectively communicate anthropological findings learned in the course.

ANT 123 - Introduction to Archaeology

3 credit hours - Three hours of lecture weekly; one term.

This course meets the Social & Behavioral Sciences General Education Requirement. Research the archaeology of both Old and New Worlds, emphasizing North America and Europe. Analyze the spatial distribution, over time, of the genus *Homo*. Investigate material cultural and environmental evidence in order to understand regional differences in social institutions, especially economics. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as ANT 123H; credit is not given for both ANT 123 and ANT 123H*.

Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Define the science and discuss the historical and theoretical perspectives in the discipline of archaeology.
Identify and analyze how the field of archaeology has evolved and modernized throughout the world.
Explain and identify how particular regions are influenced by biosocial and biocultural conditions.
Evaluate selected demographic variations between bands of foragers, tribes, chiefdoms and states as the continents became occupied.
Compare and contrast the different economic impacts of human occupation and the shifting rural and urban economic landscapes.
Apply the techniques learned in archaeology to related disciplines such as geography, sociology, history of arts, etc.

ANT 123H - Introduction to Archaeology Honors

3 credit hours - Three hours of lecture weekly; one term.

This is an honors course. This course meets the Social & Behavioral Sciences General Education Requirement. Research the archaeology of both Old and New Worlds, emphasizing North America and Europe. Analyze the spatial distribution, over time, of the genus Homo. Investigate material cultural and environmental evidence in order to understand regional differences in social institutions, especially economics. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for Honors courses.* Crosslisted: *Also offered as ANT 123; credit is not given for both ANT 123 and ANT 123H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Define the science and discuss the historical and theoretical perspectives in the discipline of archaeology.
Identify and analyze how the field of archaeology has evolved and modernized throughout the world.
Explain and identify how particular regions are influenced by biosocial and biocultural conditions.
Evaluate selected demographic variations between bands of foragers, tribes, chiefdoms and states as the continents became occupied.
Compare and contrast the different economic impacts of human occupation and the shifting rural and urban economic landscapes.
Apply the techniques learned in archaeology to related disciplines such as geography, sociology, history of arts, etc.

Architecture and Interior Design

ACH 100 - Introduction to Interior Design

1 credit hour - One hour of lecture and one hour of lab weekly; one term.

Gain an overview of the interior design profession. Learn the principles and elements of interior design through critiques, simple in-class exercises, projects, and lectures. Explores the various academic pathways in both residential and commercial design. Preparatory course for students exploring the field of interior design and seeking a certificate or degree. Lab fee \$20. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the field of Interior Design and options of specialization in this career path.
2. Explain how Interior Design affects the public and private spaces from a local to a global market.
3. Define the business responsibilities of the Interior Designer as an employee or employer.

ACH 101 - Kitchen and Bath Fundamentals

1 credit hour - Ten hours of lecture and ten hours lab weekly; one term

Identify solutions for kitchen and bath design in a residential setting. Outline recommended standards for placement of cabinetry, plumbing fixtures, and appliances. Address codes set by the International Residential Code (IRC). Examine ventilation and lighting. Define accessibility requirements and designing for aging in place. Lab fee \$30. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Identify building codes and current industry practices in kitchens and baths
- Create design solutions in kitchens and baths that address access standards and universal design
- Recognize standard dimensions in cabinetry, appliances, and plumbing fixtures

ACH 104 - Interior Finishes and Applications

3 credit hours - One hour of lecture and four hours of studio weekly; one term. Formerly Materials and Methods for Interior Design 1

Examine interior finishes and their methods of installation for both residential and commercial projects. Explore sustainability and the role of LEED (Leadership in Energy and Environmental Design). Evaluate sustainable specifications, performance attributes, installation issues and fabrication of materials. Review finish schedules and interior design specifications. Explore new and remodeling applications, review private contractors and home suppliers to determine appropriate finishes in design. Lab fee \$40. Prereq or Coreq: *ACH 100 or permission of department chair*. Crosslisted: *Also offered as ACH 104H; credit is not given for both ACH 104 and ACH 104H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Identify finish materials for interior spaces
2. Use proper applications for interior finish materials
3. Discuss the concept of sustainability and its relationship to codes and regulations
4. Estimate quantities and life cycle costing
5. Communicate visually and verbally interior design solutions

ACH 104H - Interior Finishes and Applications – Honors

3 credit hours - One hour of lecture and four hours of studio weekly; one term. Formerly Materials and Methods for Interior Design 1

--- This is an honors course. Examine interior finishes and their methods of installation for both residential and commercial projects. Explore sustainability and the role of LEED (Leadership in Energy and Environmental Design). Evaluate sustainable specifications, performance attributes, installation issues and fabrication of materials. Review finish schedules and interior design specifications. Explore new and remodeling applications, review private contractors and home suppliers to determine appropriate finishes in design. Lab fee \$40. Prereq(s): *Eligibility for Honors courses*. Prereq or Coreq: *ACH 100 or permission of department chair*. Crosslisted: *Also offered as ACH 104; credit is not given for both ACH 104 and ACH 104H*. Note: *Complete and present an honors capstone research project*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Identify finish materials for interior spaces
2. Use proper applications for interior finish materials
3. Discuss the concept of sustainability and its relationship to codes and regulations
4. Estimate quantities and life cycle costing
5. Communicate visually and verbally interior design solutions

ACH 105 - Textiles and Textile Applications

3 credit hours - one hour of lecture and four hours of studio weekly; one term.

Explore textiles and the different types of natural and synthetic fibers. Discuss textile history, manufacturing and applications. Examine textile production processes, pattern design and industry icons. Apply appropriate textiles to window treatments, wallcoverings and furniture applications. Estimate carpet and textile quantities. Lab fee \$40. Prereq or Coreq: *ACH 100 or permission of department chair*. Crosslisted: *Also offered as ACH 105H; credit is not given for both ACH 105 and ACH 105H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Define textiles, their origins, and their historical significance.
- Identify textile fiber construction techniques, sustainability, dye methods, and design motifs.
- Determine industry standards, requirements, and safety factors.
- Design textiles treatments for residential and commercial use.

ACH 105H - Textiles and Textile Applications – Honors

3 credit hours - One hour lecture and four hours of studio weekly; one term. This is an honors course. Explore textiles and the different types of natural and synthetic fibers. Discuss textile history, manufacturing and applications. Examine textile production

processes, pattern design and industry icons. Apply appropriate textiles to window treatments, wallcoverings and furniture applications. Estimate carpet and textile quantities. Lab fee \$40. Prereq(s): *Eligibility for Honors Courses*. Prereq or Coreq: *ACH 100 or permission of department chair*. Crosslisted: *Also offered as ACH 105; credit is not given for both ACH 105 and ACH 105H*. Note: *Complete and present an honors capstone research project*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Define textiles, their origins, and their historical significance.
- Identify textile fiber construction techniques, sustainability, dye methods, and design motifs
- Determine industry standards, requirements and safety factors
- Design textiles treatments for residential and commercial use

ACH 106 - Interior Design Studio

3 credit hours - One hour of lecture weekly and four hours of laboratory weekly; one term. Formerly Residential Design Studio Apply the interior design process from initial client interview, through schematic design, development, and final presentations. Examine and apply the principles and elements of design in residential and commercial settings. Develop different forms of communicating design through verbal, written, and technology based methods. Determine furnishing layouts, textiles, interior finishes, lighting, and color solutions for residential interior applications. Projects range from basic to more complex interior design solutions. Lab fee \$40. Prereq(s): *ACH 100 and ACH 111 or permission of department chair*. Crosslisted: *Also offered as ACH 106H; credit is not given for both ACH 106 and ACH 106H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Assess client needs and conduct product research to determine interior design solutions
- Apply the principles and elements of design in residential and commercial settings
- Prepare and present oral and visual presentations
- Execute the design process from initial client interview, through schematic design development and final presentations

ACH 106H - Interior Design Studio – Honors

3 credit hours - One hour of lecture weekly and four hours of laboratory weekly; one term. Formerly Residential Design Studio This is an honors course. Apply the interior design process from initial client interview, through schematic design, development, and final presentations. Examine and apply the principles and elements of design in residential and commercial settings. Develop different forms of communicating design through verbal, written, and technology based methods. Determine furnishing layouts, textiles, interior finishes, lighting, and color solutions for residential interior applications. Projects range from basic to more complex interior design solutions. Lab fee \$40. Prereq(s): *ACH 100, ACH 111 and eligibility for Honors courses, or permission of department chair*. Crosslisted: *Also offered as ACH 106; credit is not given for both ACH 106 and ACH 106H*. Note: *Complete and present an honors capstone research project*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Assess client needs and conduct product research to determine interior design solutions
- Apply the principles and elements of design in residential and commercial settings
- Prepare and present oral and visual presentations
- Execute the design process from initial client interview, through schematic design development and final presentations

ACH 111 - Graphic Communication 1: Composition and Delineation

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Formerly ACH 111 - Architectural Design 1 Examine the built environment through exploration of basic design concepts and learning design vocabulary. Explore various drawing types and production methods representative of the design and construction industries. Develop designs using composition and presentation techniques utilized in the architecture, interior, landscape and construction professions. Lab fee \$40. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the students will be able to:

- Outline foundation delineation skills.
- Examine design within the built environment.
- Prepare oral and graphic presentations.
- Recognize communication of the built environment.

ACH 112 - Graphic Communication 2: Design and Representation

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Expand on basic drawing and design concepts from ACH 111. Study advanced communication skills used in the design professions. Develop various rendering techniques and apply them during schematic design, design development, and final documentation of a design project. Visualize designs through various scales of digital and physical models. Lab fee \$40. Prereq(s): *ACH 111 and ACH 121.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Research notable design.
- Compose a oral, written and graphics presentation.
- Render architectural presentation graphics.
- Design and construct architectural models.

ACH 113 - Analysis of the Built Environment

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Analyze the built environment by exploring the concept of site as a unique combination of measurable attributes. Examine interrelated topics including human engagement, spatial elements, diversity, and context, to form a multifaceted analysis and understanding of place. Create a foundation for advanced study of Landscape Architecture and the built environment. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

ACH 114 - History of Contemporary Landscape Design

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Chronological overview of the design of contemporary open spaces and the birth of Landscape Architecture as a profession. Examine various design theories, the importance and responsibility of open space, and their influence on landscape design. Explore themes of ecology and sustainability, program and function, and aesthetics with an emphasis on critical thinking with regard to design theory and application. Lab fee \$40. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

ACH 115 - Introduction to Landscape Architecture

4 credit hours - One hour of lecture and six hours of laboratory weekly; one term. Examine the principles and elements of landscape architecture and their function in the design of the built environment. Focus on site evaluation, design methodology, and the graphic presentation of design solutions and their implementation. Lab fee \$20. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

- Discuss the landscape design process
- Identify landscape design principles, including outdoor space and circulation types, form patterns, common construction elements, design features, and plant materials
- Develop a basic site analysis
- Use appropriate drawing symbols, plant materials, and color rendering to create landscape design graphics
- Construct a landscape design presentation

ACH 116 - Landscape Architecture: System and Design

4 credit hours - One hour lecture and six hours of laboratory weekly; one term. Examine the diverse topics that inform landscape architectural designs. Study the behavioral, environmental and aesthetic principals used to shape the design and use of outdoor spaces. Learn graphic methods to analyze multiple landscape typologies and the plant material used in landscape design. Illustrate landscape

design solutions using various industry techniques. Lab fee \$20. Prereq(s): *ACH 111 or permission of department chair*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze Landscape Architecture responsibilities.
- Evaluate landscape designs.
- Develop planting design skills.
- Incorporate illustrative techniques to communicate landscape designs.
- Develop Landscape details.
- Produce Landscape Architecture construction drawings.

ACH 117 - Landscape Architecture: Plant Identification

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Examine urban woody plants and methods for their identification. Identify plant materials by common and scientific name, and their environmental requirements. Explore trees, shrubs, vines, and groundcovers used in the landscape industry with regard to common planting design applications. Lab fee \$25. Crosslisted: *Also offered as ACH 117H; credit is not given for both ACH 117 and ACH 117H.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Summer

Course Outcomes

- Identify landscape architecture plant materials
- Describe landscape architecture plant material characteristics
- Select plants material for design application

ACH 117H - Landscape Architecture: Plant Identification Honors

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. This is an honors course. Examine urban woody plants and methods for their identification. Identify plant materials by common and scientific name, and their environmental requirements. Explore trees, shrubs, vines, and groundcovers used in the landscape industry with regard to common planting design applications. Lab fee \$25. Prereq(s): *Eligibility for Honors courses*. Crosslisted: *Also offered as ACH 117; credit is not given for both ACH 117 and ACH 117H.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Summer

Course Outcomes

- Identify landscape architecture plant materials
- Describe landscape architecture plant material characteristics
- Select plants material for design application

ACH 118 - Landscape Architecture: Materials of Construction

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Explore landscape construction materials and their application for implementing a landscape design. Examine various materials and methods with regard to structural integrity, human safety issues, ecological concerns, and sustainability. Identify best practices in details pertaining to plant material and hardscape, and their integrations into the site. Prereq(s): *ACH 111 and ACH 121*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

ACH 121 - Construction Technology 1

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Formerly ACH 121 - Architectural Materials and Methods 1 Examine the built environment through exploration of basic materials and methods used in construction. Apply environmental factors from site analysis to general design principles. Evaluate structural theory, wood frame construction methods, thermal and moisture protection, fenestration and interior finishes commonly used in building design. Create construction details of connections commonly used to join materials in residential construction. Lab fee \$40. Coreq(s): *ACH 111 or permission of the department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the students will be able to:

- Relate environmental and regulatory factors concerning the building site.
- Employ structural concepts to buildings.
- Classify common building assemblies.
- Recognize communication of the built environment.

ACH 122 - Construction Technology 2

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Continue to examine the built environment through exploration of materials and methods used in construction. Apply sustainable design practices commonly found in commercial construction systems, such as masonry, steel, and concrete. Emphasize construction methods used in structural systems, use of building systems and detailing of commercial construction. Lab fee \$40. Prereq(s): *ACH 111 and ACH 121, or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Relate environmental and regulatory factors concerning the building site.
- Employ structural concepts to buildings.
- Classify common building assemblies.
- Recognize communication of the built environment.

ACH 201 - History of Interior Design

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Examine the evolution of interior design through the lifestyles of the ancient civilizations of the Egyptians, Greeks, and Romans. Explore the architecture of the past through present day, the role it plays in interior design, and how it applies to furniture design and the decorative arts. Examine French, Italian, English, and American styles and design development. Note: *Completion of ACH 245 is highly recommended prior to taking this course.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Discuss historical periods' relevance to interior design.
2. Identify interior design elements by their period.
3. Interpret historical references used in interior design.
4. Identify interior design trends based on past historical periods.
5. Incorporate historical interior design elements.

ACH 202 - Space Planning

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Examine space planning solutions which include wall assemblies, panel systems, and furnishings. Implement building codes such as IBC (International Building Code), ADA (Americans with Disabilities Act), IRC (International Residential Code), and NFPA (National Fire Protection Agency). Determine plumbing layouts and HVAC for commercial structures and residential kitchen and bath designs following NKBA (National Kitchen and Bath Association) guidelines. Explore the role of reflected ceiling plans. Review the critical body of knowledge for individuals seeking NCIDQ (National Council for Interior Design Qualification) certification. Lab fee \$20. Prereq(s): *ACH 106 or ACH 211, ACH 245 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Implement programming techniques for interior design applications
- Apply interior design principles to allocate interior space
- Differentiate between building code requirements and apply them appropriately to the circumstances of the project
- Diagram switching and reflected ceiling plans

ACH 203 - Commercial Design Studio

4 credit hours - Three hours of lecture and two hours of studio weekly; one term. Learn commercial and contract design. Concentrates on specific commercial and contract projects such as retail, hospitality, corporate, entertainment, recreational and yacht design with an emphasis on sustainability. Addresses public health, safety and welfare issues. Projects cover all aspects of commercial design from client contact, programming, schematics, design development to design presentations. Expands on materials and methods for interior design for commercial applications. Advanced graphic design and illustration skills are emphasized to include: concept drawings, elevations, color renderings and presentation board layouts. Lab fee \$20. Prereq(s): *ACH 104, ACH 105, ACH 106, or permission of department chair.* Crosslisted: *Also offered as ACH 203H; credit is not be given for both ACH 203 and ACH 203H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

ACH 203H - Commercial Design Studio – Honors

4 credit hours - Three hours of lecture and two hours of studio weekly; one term.

This is an honors course. Learn commercial and contract design. Concentrates on specific commercial and contract projects such as retail, hospitality, corporate, entertainment, recreational and yacht design with an emphasis on sustainability. Addresses public health, safety and welfare issues. Projects cover all aspects of commercial design from client contact, programming, schematics, design development to design presentations. Expands on materials and methods for interior design for commercial applications. Advanced graphic design and illustration skills are emphasized to include: concept drawings, elevations, color renderings and presentation board layouts. Lab fee \$20. Prereq(s): *ACH 104, ACH 105, ACH 106, or permission of department chair and eligibility for Honors Courses.* Crosslisted: *Also offered as ACH 203; credit is not be given for both ACH 203 and ACH 203H.* Note: *Complete and present an honors capstone research that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

ACH 204 - Interior Construction Detailing

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term. Develop skills using technology in interior design drawing and documentation. Review interior design construction documentation including dimensioning, finish schedules, specifications, annotations and placement of information. Examine how information is communicated for custom applications to contractors, purchasing agents, project managers and use in the trades. Review universal design and how it is implemented. Examine copyrights and legal registration of creative work and prototypes for custom designs. Lab fee \$20. Prereq(s): *ACH 104 and ACH 245 or ACH 211 or permission of department chair.* Crosslisted: *Also offered as ACH 204H; credit is not given for both ACH 204 and ACH 204H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

- Interpret construction contract documentation
- Use industry standard digital programs to create construction documents for interior design applications
- Communicate effectively with contractors, purchasing agents, project managers, and other relevant audiences.
- Compare the ADA to Universal Design and apply these concepts appropriately to interior designs.

ACH 204H - Interior Construction Detailing – Honors

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

This is an honors course. Develop skills using technology in interior design drawing and documentation. Review interior design construction documentation including dimensioning, finish schedules, specifications, annotations and placement of information. Examine how information is communicated for custom applications to contractors, purchasing agents, project managers and use in the trades. Review universal design and how it is implemented. Examine copyrights and legal registration of creative work and prototypes for custom designs. Lab fee \$20. Prereq(s): *Eligibility for Honors courses. ACH 104 and ACH 245 or ACH 211 or permission of department chair.* Crosslisted: *Also offered as ACH 204; credit is not given for both ACH 204 and ACH 204H.* Note: *Complete and present an honors capstone research project.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

- Interpret construction contract documentation
- Use industry standard digital programs to create construction documents for interior design applications
- Communicate effectively with contractors, purchasing agents, project managers, and other relevant audiences.
- Compare the ADA to Universal Design and apply these concepts appropriately to interior designs.

ACH 205 - Residential Studio

4 credit hours - One hour of lecture and six hours of laboratory weekly; one term.

Formerly Advanced Residential Studio Explore the principles and elements of designing complex projects in a residential setting. Learn design applications in today's environment through lecture and studio. Hand-draft floor plans, apply AutoCAD skills and create sample boards that are portfolio ready. Lab fee \$40. Prereq(s): *ACH 106 or permission of department chair*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

- Use standard industry technology to present design strategies
- Coordinate a structure's architectural elements with interior design solutions
- Apply knowledge of current lifestyle trends, including differences in rural, small town, suburban, and urban living, to create interior design solutions
- Manage complex residential remodeling and restoration projects

ACH 206 - Kitchen and Bath Design

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Gain an overview of Kitchen and Bath Design. Interpret program and code requirements for basic kitchen and bath facilities in residential settings. Address finishes, appliance options, various building shells and budget constraints. Design kitchens and baths following the guidelines of NKBA (National Kitchen and Bath Association) with additional consideration for ADA (The Americans with Disability Act) and LEED (Leadership in Energy and Environmental Design). Lab fee \$40. Prereq(s): *ACH 202 or ACH 204 or ACH 211 or permission of department chair*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the students will be able to:

- Interpret criteria for creating solutions in kitchens and baths.
- Design kitchens and baths for residential use.
- Design kitchens and baths for commercial use following universal and ADA requirements.
- Draw design plans using CADD.
- Evaluate appliances and fixtures based on research.
- Present solutions before an audience.
- Critique solutions proposed.

ACH 207 - Portfolio and Visual Presentation for Interior Design

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Learn techniques and applications of perspective drawings for interiors, their furnishing and details, taught in various media. Emphasizes portfolio ready presentations and explores, examines and executes the development of a well organized body of work. Lab fee \$40. Prereq(s): *ACH 106 (formerly ACH 101), ACH 112, ACH 245 and ART 125 or permission of department chair*.

Course Outcomes

Upon successful completion of this course, students will be able to:

- Create a balanced portfolio of current and past interior design and architecture projects.
- Draw and paint illustrations for interior applications.
- Write resumes for the professional Interior Design environment.
- Demonstrate through presentation business appropriate verbal skills.

ACH 208 - History of Ornament, Textiles and Color

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

An expansion of History of Interior Design as a continuum with further application to current design approaches. Focuses on color palettes and their historical origins; the use of textiles during those periods, and ornamentation of the interior structures and how it relates to the interior design professional today. Prereq(s): *ACH 106 and ACH 201*. Note: *Also offered as independent study*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Correlate the significance of historical elements to present day technology.
- Correlate the significance of historical elements to present day technology.
- Create historically correct interiors.
- Examine historical events or inventions that played roles in design evolution.
- Compare historical interiors to today's interior residential environment.
- Compare historical interiors to today's commercial interior environment.

ACH 209 - Lighting for Interior Design

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Reviews the difference between natural and artificial light. Covers lighting effects with respect to texture and color, the psychology of light, and the relationship of light and sustainable design in today's environment. Fixture schedules, switching patterns and reflected ceiling plans for a multitude of residential and commercial situations are covered. Includes lectures, research and student projects. Lab fee \$40. Prereq(s): *ACH 203 (formerly ACH 102), ACH 242 and PHY 120.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply principles of illumination for residential and commercial spaces.
- Analyze lighting methods.
- Calculate lighting needs utilizing code requirements.
- Weigh alternatives for energy sources that comply with sustainable design.
- Develop lighting plans inclusive of appropriate fixture symbols and switching methods.
- Present lighting design plans.

ACH 210 - Advanced Commercial Studio

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

A continuation of ACH 203, Advanced Studio emphasizes a comprehensive study of commercial interiors. This course prepares students with an advanced knowledge of contract design in hospitality, commercial office, and other public spaces. Students will complete complex projects, with an emphasis on graphic design and presentation skills. Lab fee \$40. Prereq(s): *ACH 203 (formerly ACH 102) and ACH 245.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Design spaces in specialized commercial settings.
- Meet commercial code and barrier free requirement.
- Critique design proposals.
- Factor human ergonomics in the commercial environment.
- Interpret project criteria.

ACH 211 - Architectural Studio 1: Form, Space and Order

4 credit hours - One hour of lecture and six hours of laboratory weekly; one term.

Explore the design process as a method for developing architectural design solutions. Analyze design precedents and apply them to studio projects. Review formal ordering systems that inform two and three dimensional design, architectural composition and urban design. Examine site influences on development of design strategies. Document concept development from abstract two-dimensional and three-dimensional compositions to designs that address specific programmatic and symbolic goals. Lab fee \$40. Prereq(s): *ACH 112, ACH 245.* Crosslisted: *Also offered as ACH 211H; credit is not given for both ACH 211 and ACH 211H.* Note: *Concurrent enrollment recommended in ACH 240 and ACH 242.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Apply the design process to architectural projects.
Analyze and diagram the built form.
Analyze architectural sites.
Articulate architectural form, space and order concepts.
Incorporate technology in presenting architectural designs.
Draw an Architectural site plan, schematic floor plans, sections, and elevations.
Create an Architectural Site Model.
Articulate and defend an Architectural design concept.

ACH 211H - Architectural Studio 1: Form, Space and Order Honors

4 credit hours - One hour of lecture and six hours of laboratory weekly; one term.

This is an honors course. Explore the design process as a method for developing architectural design solutions. Analyze design precedents and apply them to studio projects. Review formal ordering systems that inform two and three dimensional design, architectural composition and urban design. Examine site influences on development of design strategies. Document concept development from abstract two-dimensional and three-dimensional compositions to designs that address specific programmatic and symbolic goals. Lab fee \$40. Prereq(s): ACH 112, ACH 245, and eligibility for Honors courses. Crosslisted: Also offered as ACH 211; credit is not given for both ACH 211 and ACH 211H. Note: Concurrent enrollment recommended in ACH 240 and ACH 242. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Apply the design process to architectural projects.
Analyze and diagram the built form.
Analyze architectural sites.
Articulate architectural form, space and order concepts.
Incorporate technology in presenting architectural designs.
Draw an Architectural site plan, schematic floor plans, sections, and elevations.
Create an Architectural Site Model.
Articulate and defend an Architectural design concept.

ACH 212 - Architectural Studio 2: Design and Synthesis

4 credit hours - One hour of lecture and six hours of laboratory weekly; one term.

Expand on the fundamental design principals from ACH 211 and identify physical and environmental concerns regarding design. Review essential spatial, formal, material, sustainable, and experiential dimensions of architectural problems of varying complexity. Explore the appropriate applications of hand and digital delineation solutions and their implementation in the design process. Analyze design precedents to understand their material properties, structural concepts, as well as responses to site, environmental and cultural factors. Apply the use of structure and materials for creating environmentally responsive designs. Develop a portfolio documenting work completed in the program. Lab fee \$40. Prereq(s): ACH 211 and ACH 242. Crosslisted: Also offered as ACH 212H; credit is not given for both ACH 212 and ACH 212H. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Create a Portfolio.
Apply Symbolism and Representation.
Synthesize a Design.
Apply Architectural Tectonics.
Apply Sustainable Design.

ACH 212H - Architectural Studio 2: Design and Synthesis

4 credit hours - One hour of lecture and six hours of laboratory weekly; one term.

This is an honors course. Expand on the fundamental design principals from ACH 211 and identify physical and environmental concerns regarding design. Review essential spatial, formal, material, sustainable, and experiential dimensions of architectural problems of varying complexity. Explore the appropriate applications of hand and digital delineation solutions and their implementation in the design process. Analyze design precedents to understand their material properties, structural concepts, as well

as responses to site, environmental and cultural factors. Apply the use of structure and materials for creating environmentally responsive designs. Develop a portfolio documenting work completed in the program. Prereq(s): *ACH 211 and ACH 242 and eligibility for Honors Courses*. Crosslisted: *Also offered as ACH 212; credit is not given for both ACH 212 and ACH 212H*. Note: *Complete and present an honors capstone research that extends beyond the classroom*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Create a Portfolio.
- Apply Symbolism and Representation.
- Synthesize a Design.
- Apply Architectural Tectonics.
- Apply Sustainable Design.

ACH 213 - Building Information Modeling

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Introduces the relationship between design and building information modeling. Explores the use of the latest building information modeling technology as it applies to the sequence of the design and construction documentation process. Focuses on the appropriate application of technology through the use of parametric building objects. Discusses the basic concepts of building information modeling and how it applies to the design work environment. Course uses Revit software by Autodesk. Lab fee \$20. Prereq(s): *ACH 111, ACH 122 and either ACH 245 or ENT 241 or permission of department chair*. Note: *This course counts as one of the required CAD electives. Typically offered MC and OL; fall and spring terms*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the students will be able to:

- Compare traditional CAD software programs to BIM software.
- Determine project parameters.
- Assemble building components.
- Construct various wall types.
- Incorporate doors and windows.
- Assemble floors and ceilings.
- Design stair systems.
- Compare massing objects.
- Design roof systems.
- Incorporate construction documentation.
- Arrange sheet profiles and plot drawings.

ACH 213 - Sustainable Interiors

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Focuses on sustainable design choices and the tools for implementing changes in the use of our planet's limited resources. Demonstrates the impact on the individual and environment with the LEED (Leadership in Energy and Environmental Design) system for interiors. Instruction incorporates an analysis of green philosophies in interior design, systems, and building products. The student will create projects in presentation format and research new technologies. Lab fee \$40. Prereq(s): *ACH 203 (formerly ACH 102) and ACH 242*.

Course Outcomes

Upon successful completion of this course, students will be able to:

- Examine sustainable building practices and the impact on the regulatory process.
- Identify professional organizations and standards that influence sustainable design.
- Implement sustainable interior design practices
- Explore sustainable and environmental issues that impact interior design.
- Assess various interior design materials and systems for their sustainability.

Determine sustainable approaches to interior design.
Integrate sustainable design into the phases of the interior design process.

ACH 214 - Professional Practices in Interior Design

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

Define legal and professional responsibilities of operating an interior design business. Examine the various contracts, standardized and custom, that protect both designer and client in both existing and potential projects. Review contractual arrangements, ethics, and practices of today's interior designer. Determine aspects in business unique to the kitchen and bath industry and commercial design. Develop a personal business model. Ideal for internships or those already in the workforce. Note: *Intended for the student who has taken interior design studio classes or has industry experience.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Define stages in planning an interior design business
Examine the legal requirements for interior design business ownership
Identify best practices for owning an interior design business
Outline project management strategies

ACH 215 - Interior Design Standards

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

A comprehensive study of the key components of the NCIDQ (National Council of Interior Qualification) exam. Intensive review of all critical elements including building codes, space planning, lighting strategies, business procedures, product knowledge and sample testing are included. Lab fee \$40. Prereq(s): *ACH 203 (formerly ACH 102) or permission of department chair.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Apply accumulated knowledge of Interior Design and Architecture.
Develop a plan to retain knowledge of collegiate studies.
Be alert to the changing business environment in Interior Design.
Demonstrate interior design knowledge.
Determine the primary subject matter necessary to achieve certification in Interior Design.

ACH 216 - Construction Management

4 credit hours - Two hours of lecture and four hours of laboratory weekly; one term.

Explore basic principles and skills required to organize and manage large construction projects. Examine the professional role and liability during the design and construction process. Focus on the construction project from the organizational management perspective. Prereq(s): *ACH 122 or concurrent enrollment in ACH 122 or permission of department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

Employ project management principles.
Diagram the bidding process in construction.
Express foundational tenets of contract award and project delivery.
Employ rudiments of pre-construction planning.
Formulate a resource management plan for a construction project.

ACH 218 - Construction Operations

4 credit hours - Two hours of lecture and four hours of laboratory weekly; one term.

Explore basic principles and elements required to organize, operate and manage small-, medium- and large-sized construction companies. Apply processes of estimating, bidding, scheduling, procurement, value engineering and construction safety. Analyze the construction project from the executive perspective. Prereq(s): *ACH 216 or permission of the department chair.* Location(s) Typically

Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify career opportunities in construction.
- Analyze business practices in construction.
- Generate marketing tactics used in construction.
- Outline legal liability in a construction project.

ACH 219 - Construction Contract Administration

3 credit hours - One hour lecture and four hours of laboratory weekly; one term.

Examine the construction contract document set from a contractor's point of view. Review and interpret construction contracts and conditions, specifications and drawings. Explore the legality of the construction document set from bidding requirements through contract changes. Examine the relationship between the project manual and construction drawings. Lab fee \$30. Prereq(s): *ACH 122 or permission of the department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and analyze the seven-part construction document set.
- Interpret drawings and specifications.
- Apply cross-referencing within construction drawings.
- Identify and explain construction materials in the drawing set.
- Interpret and apply provisions of construction contract agreements and conditions.
- Process submittal requirements from trade contractors and manufacturers.
- Process construction change directives and change orders.
- Organize construction documents, correspondence, submittals and reports.
- Interpret the legality of construction documents in the construction contract.

ACH 221 - History of World Architecture: Ancient to Medieval

3 credit hours - Three hours weekly; one term.

Formerly ACH 221 - History of World Architecture 1 This course meets the Arts & Humanities General Education Requirement. Examine the development of world architectural styles from the ancient world through the late Middle Ages. Learn architectural design and city planning as responses to religious, political, economic, and cultural needs, as well as for an understanding of their structural principles. No previous art courses are necessary. Crosslisted: *Also offered as ART 221; credit is not given for both ACH 221 and ART 221.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Identify major styles, theories, architects, and architectural works from prehistory through the Middle Ages
- Interpret architecture as expressions of an individual's and a culture's definitions, values, and ideas
- Apply the vocabulary, methods, materials, and concepts of architecture and articulate responses to architecture as artistic or cultural expression

ACH 222 - History of World Architecture: Renaissance to Present

3 credit hours - Three hours weekly; one term.

Formerly ACH 222 - History of World Architecture 2 This course meets the Arts & Humanities General Education Requirement. Examine world architectural styles from the Renaissance through the present. Learn architectural design, landscape architecture, and city planning as responses to religious, political, economic, and cultural needs. No previous art courses are necessary. Crosslisted: *Also offered as ART 222; credit is not given for both ACH 222 and ART 222.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify major styles, theories, architects, and architectural works from the Renaissance through the twentieth century.
Interpret architecture as expressions of an individual's and a culture's definitions, values, and ideas.
Apply the vocabulary, methods, materials and concepts of architecture to articulate responses to architecture as artistic or cultural expression.

ACH 223 - History of American Architecture

3 credit hours - Three hours weekly; one term.

An introduction to the development of American architecture, interior design, urban design and landscape architecture from pre-colonial times to the present. Particular attention will be paid to the old and new world sources of American design, as well as to the cultural, political, economic and environmental forces that have shaped the American built environment. Lectures and discussions will be supplemented by field trips. No previous art courses are necessary. Crosslisted: *Also offered as AMS 223 and ART 223; credit is given for only one of the following: ACH 223, AMS 223 or ART 223.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Interpret the built environment as an expression of cultural beliefs, values and history.
Demonstrate an understanding of the materials, structural principles, vocabulary and concepts of architectural history.
Explain the influence of Old and New World cultures on American architecture.
Demonstrate an understanding of the evolution of American architectural styles from the time of pre-colonial cultures to the present.
Analyze the influence of environment, resources and new technology on the history of American architecture.
Articulate the impact of American architectural ideas and theories on world architecture in the last fifty years.

ACH 226 - Advanced Kitchen and Bath Design

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Learn skills necessary for complex kitchen and bath design. Covers advanced design techniques and deeper understanding of construction challenges and design solutions. Further incorporates NKBA Planning and Access Guidelines and presentation standards into kitchen and bath design. Focuses on creating complete project documents for larger upscale kitchens and baths and effectively communicating design solutions. Hand-drafting and computer aided drafting applications using 20/20 software area addressed. Projects are primarily residential with an additional focus on public facilities, codes and ADA. Lab fee \$40. Prereq(s): *ACH 206 and ACH 235 or concurrent enrollment of ACH 235 with permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Determine solutions in complex kitchen and bath environments.
Evaluate criteria of project situations including universal design and ADA requirements.
Incorporate hand drafting and CADD in the design documents for presentation.
Create solutions for residential kitchens and baths following NKBA guidelines.
Present solutions before an audience.
Access design solutions.

ACH 230 - Cost Estimating for Construction

4 credit hours - Two hours of lecture and four hours of laboratory weekly; one term.

Examine the role of cost estimating in the construction process. Identify concerns and processes related to and involved with estimating construction costs. Review economic factors that affect construction costs. Categorize and calculate construction costs by building materials and systems. Lab fee \$30. Prereq(s): *ACH 122 and ACH 219 and eligibility for MAT 045, or permission of department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Analyze construction economics.
Outline construction estimating process and procedures.
Practice cost estimates of materials.

ACH 231 - Professional Practices in Architecture

3 credit hours - One hour lecture and four hours laboratory weekly; one term.

Learn the role of the design professional in the construction industry. Examine the interrelationships, roles, ethics and responsibilities of the various participants in the design and construction process. Analyze business structure, company management, marketing, administration, public and client relations, consultant and contractor relations, standardized contracts, project administration and procedures and compensation. Review internship and licensure requirements for architects. Learn business practices in the architectural profession. Prereq(s): *ACH 111 and ACH 121*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

ACH 235 - Computer Applications for Kitchen and Bath Design

1 credit hour - 10 hours of lecture and 10 hours of laboratory; one term.

Learn the 20/20 computer-aided design software that is used universally in the kitchen and bath industry. Includes lecture directed labs with a focus on how the software interprets manufacturers specifications, floor plans, elevation drawings and perspectives. Lab based homework and projects assigned. Lab fee \$20. Prereq(s): *CTA 100 or CTP 103 and either ACH 202 or ACH 204 or ACH 211 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Winter and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Develop a thorough knowledge of software used in the kitchen and bath industry.
- Prepare design documents using industry specific software.
- Acquaint self with the methods of inserting manufacturer's specifications into the software.
- Draw kitchen and bath projects using specialized software.

ACH 240 - Construction Documentation

4 credit hours - One hour of lecture and six hours of laboratory weekly; one term.

Explore the basic components and terminology used in construction documentation. Examine the process and organization of construction documents and their application used in the industry. Review and apply standards of practice to develop a set of construction documents. Lab fee \$20. Prereq(s): *ACH 111, ACH 122 and ACH 245 or ENT 241 or permission of department chair*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

- Explain the basic components of a set of construction documents.**
- Design details to represent and document the functional and aesthetic requirements of a design.**
- Coordinate reference details, notes, and symbols between plans, elevations, and sections.**
- Apply line weights and drafting skills as they relate to the construction documentation.**
- Create construction schedules and specifications.**
- Create and interpret construction site plans.**
- Compose a set of basic construction documents for a design.**

ACH 242 - Environmental Systems for Design

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

This course meets the Wellness Requirement. Explore the impacts buildings have on individuals and the environment. Assess the effects of healthy interior and exterior environments on society. Examine sustainable design principles and the LEED (Leadership in Energy and Environmental Design) green building rating system. Evaluate the various systems commonly used in building construction and the impact of sustainable and high performance design. Lab fee \$20. Crosslisted: *Also offered as ACH 242H; credit is not given for both ACH 242 and ACH 242H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Explain LEED Green Building Rating System and its health and wellness benefits to the individual and community
2. Examine the effects of the site on the health and wellness of the individual, built environment, and community
3. Analyze environmental factors affecting the health and wellness of the individual, built environment, and community
4. Apply sustainable design strategies for the health and wellness of the individual, built environment, and community

ACH 242H - Environmental Systems for Design – Honors

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

This is an honors course. Explore the impacts that buildings have on individuals and the environment. Assess the effects of healthy interior and exterior environments on society. Examine sustainable design principles and the LEED (Leadership in Energy and Environmental Design) green building rating system. Evaluate the various systems commonly used in building construction and the impact of sustainable and high performance design. Lab fee \$20. Prereq(s): *Eligibility for Honors courses*. Crosslisted: *Also offered as ACH 242; credit is not given for both ACH 242 and ACH 242H*. Note: *Complete and present an honors capstone research project*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Explain LEED Green Building Rating System and its health and wellness benefits to the individual and community
2. Examine the effects of the site on the health and wellness of the individual, built environment, and community
3. Analyze environmental factors affecting the health and wellness of the individual, built environment, and community
4. Apply sustainable design strategies for the health and wellness of the individual, built environment, and community

ACH 245 - Digital Technologies 1

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

Review computer applications used by architects, interior designers, and others involved in design and construction. Discuss how common and specialized CAD software applied to the design and construction industry along with the specialized hardware associated with these fields. Explore the use and application of peripherals such as plotters and scanners. Practice how basic computer functions, file management, graphic presentation, and CAD are applied to design and construction. Lab fee \$20. Prereq(s): *ACH 111 and CTA 100 or CTP 103 or permission of department chair*. Note: *Credit is not given for both ACH 245 and ENT 241*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Create designs with two-dimensional software.
- Model designs with three-dimensional software.
- Use multiple rendering techniques with illustrative software.

ACH 255 - Digital Technologies 2

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

Apply advanced digital drawing skills used in the architectural design professions. Construct and organize CAD drawings with techniques necessary for digital design presentations and construction documents. Explore in-depth commands and features to generate multiple printing and model formats including laser cutting. Lab fee \$20. Prereq(s): *ACH 245 or permission of the department chair*. Note: *This course counts as one of the required CAD electives*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Utilize advanced AutoCAD tools for creation digital drawing.
- Review digital presentation techniques in AutoCAD.
- Utilize annotative scales in a digital drawing.
- Create and laser cut a digital design.
- Produce and edit a digital drawing for construction documentation.

ACH 262 - Architectural Travel Study 1

3 credit hours - 30 hours of lecture and 45 hours of laboratory.

Explore significant architecture in various trip destinations. Analyze site specific architecture through tours and in-person observations. Experience architecture from several time periods that has influenced design throughout the world. Examine architectural design styles within the context of the trip destination such as monuments, outdoor spaces, museums, civic and religious buildings, along with other historic and contemporary structures. Crosslisted: *Also offered as ACH 262H; credit not given for both ACH 262 and ACH 262H*. Note: *This travel study course is taught primarily on site and requires pre and post-trip meetings. Students are required to sign up for the associated travel section and pay for travel fees separately. Students are also required to have a valid*

passport 90 days prior to departure and valid 90 days after the return date. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze designs.
- Evaluate architectural building types.
- Develop presentation skills.
- Incorporate sketching as a design communication tool.
- Identify architectural design styles.
- Investigate cultural influences and responses.

ACH 262H - Architectural Travel Study 1-Honors

3 credit hours - 30 hours of lecture and 45 hours of laboratory

This is an Honors course. Explore significant architecture in various trip destinations. Analyze site specific architecture through tours and in-person observations. Experience architecture from several time periods that has influenced design throughout the world.

Examine architectural design styles within the context of the trip destination such as monuments, outdoor spaces, museums, civic and religious buildings, along with other historic and contemporary structures. Prereq(s): *Eligibility for Honors courses*. Crosslisted: *Also offered as ACH 262; credit not given for both ACH 262 and ACH 262H*. Note: *Complete and present an honors capstone research that extends beyond the classroom. This travel study course is taught primarily on site and requires pre and post-trip meetings.*

Students are required to sign up for the associated travel section and pay for travel fees separately. Students are also required to have a valid passport 90 days prior to departure and valid 90 days after the return date. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze designs.
- Evaluate architectural building types.
- Develop presentation skills.
- Incorporate sketching as a design communication tool.
- Identify architectural design styles.
- Investigate cultural influences and responses.

ACH 263 - Architectural Travel Study 2

3 credit hours - 30 hours of lecture and 45 hours of laboratory

Further explore significant architecture in different destinations not previously studied in ACH 262. Analyze site specific architecture through tours and in-person observations. Experience architecture from several time periods that has influenced design throughout the world. Examine architectural design styles within the context of the trip destination such as monuments, outdoor spaces, museums, civic and religious buildings, along with other historic and contemporary structures. Prereq(s): *ACH 262 and permission of department chair*. Crosslisted: *Also offered as ACH 263H; credit not given for both ACH 263 and ACH 263H*. Note: *This travel study course is taught primarily on site and requires pre and post-trip meetings. Students are required to sign up for the associated travel section and pay for travel fees separately. Students are also required to have a valid passport 90 days prior to departure and valid 90 days after the return date.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze designs.
- Evaluate architectural building types.
- Develop presentation skills.
- Incorporate sketching as a design communication tool.
- Identify architectural design styles.
- Investigate cultural influences and responses.

ACH 263H - Architectural Travel Study 2-Honors

3 credit hours - 30 hours of lecture and 45 hours of laboratory

This is an Honors course. Further explore significant architecture in different destinations not previously studied in ACH 262. Analyze site specific architecture through tours and in-person observations. Experience architecture from several time periods that has influenced design throughout the world. Examine architectural design styles within the context of the trip destination such as monuments, outdoor spaces, museums, civic and religious buildings, along with other historic and contemporary structures. Prereq(s): *Eligibility for Honors courses and ACH 262 or ACH 262H and permission of department chair. Crosslisted: Also offered as ACH 263; credit not given for both ACH 263 and ACH 263H. Note: Complete and present an honors capstone research that extends beyond the classroom. This travel study course is taught primarily on site and requires pre and post-trip meetings. Students are required to sign up for the associated travel section and pay for travel fees separately. Students are also required to have a valid passport 90 days prior to departure and valid 90 days after the return date.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze designs.
- Evaluate architectural building types.
- Develop presentation skills.
- Incorporate sketching as a design communication tool.
- Identify architectural design styles.
- Investigate cultural influences and responses.

ACH 265 - Digital Studio

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

Articulate the role of technology in design professions through multiple studio projects. Explore the use of various technologies through the sequences of the design process to transition from free-hand design concepts to three-dimensional modeling software. Produce various renderings and image types for use in digital presentations and create a three-dimensional print. Use SketchUp, plug-ins, and Photoshop software. Lab fee \$20. Prereq(s): *ACH 245. Crosslisted: Also offered as ACH 265H; credit is given for both ACH 265 and ACH 265H. Note: This course counts as one of the required CAD electives. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring*

Course Outcomes

Transform a design concept into multiple digital representations

- Review the design process and use of computer applications for design.
- Review effective design presentation techniques.
- Import hand drawings into various design software.
- Manipulate hand drawings in design software.
- Create multiple digital representations of a design solution.

Construct a digital model for 3D Printing

- Review process for converting SketchUp model into an STL file format for 3D printing.
- Identify appropriate abstraction and detail scale for 3D printer capabilities.
- Utilize SketchUp components in modeling.
- Group geometries and elements in a SketchUp model.
- Examine SketchUp model for gaps and inverted surfaces.
- Produce a 3D Printable design in SketchUp.

Produce renderings from a digital model.

- Characterize SketchUp style options.
- Apply a rendering style to a digital model.
- Create a material patterns.
- Manipulate a material patterns.
- Utilize shadow setting.
- Manipulate perspective settings.
- Utilize rendering plug-ins for Sketchup.
- Revise SketchUp Renderings

Develop animations from a digital model.

Characterize a Fly-through animation.
Characterize a Walk-through animation.
Create SketchUp scenes.
Reorganize SketchUp scenes.
Revise SketchUp scenes.
Generate an animation with SketchUp.
Revise animation playback speed.
Revise animation resolution and size.

Produce and edit digital imagery for design presentations.

Identify equipment for photographing design and construction projects.
Define common resolution requirement and file formats for digital images used in design.
Characterize Photoshop selection tools and techniques.
Capture specific areas of a digital image for manipulation.
Manipulate Photoshop layers.
Characterize image filtering options in Photoshop.
Utilize image filter options for design presentation.

ACH 265H - Digital Studio – Honors

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

This is an honors course. Articulate the role of technology in design professions through multiple studio projects. Explore the use of various technologies through the sequences of the design process to transition from free-hand design concepts to three-dimensional modeling software. Produce various renderings and image types for use in digital presentations and create a three-dimensional print. Use SketchUp, plug-ins, and Photoshop software. Lab fee \$20. Prereq(s): ACH 245 and eligibility for Honors Courses. Crosslisted: Also offered as ACH 265; credit is given for both ACH 265 and ACH 265H. Note: This course counts as one of the required CAD electives. Complete and present an honors capstone research that extends beyond the classroom. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

ACH 271 - Advanced Building Information Modeling

3 credit hours - One hour lecture and four hours of laboratory weekly; one term.

Explore advanced uses of the latest in building information modeling technology as it applies to the sequence of the design and construction documentation process. Focus on expanding knowledge of advanced skills in the areas of conceptual design, including massing studies, space planning, visualization, rendering and animations. Course uses Revit software by Autodesk. Lab fee \$40. Prereq(s): ACH 213 or permission of the department chair. Note: This course counts as one of the required CAD electives. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Summer

ACH 275 - Internship in Architecture and Interior Design 1

3 credit hours - 20 to 40 hours of area-related work experience weekly; one term.

Students participate in work related to their program. The work must be certified by the department chair. Prereq(s): Permission of department chair. Note: Students are strongly encouraged to contact the Coordinator for Internships prior to registration. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

ACH 276 - Internship in Architecture and Interior Design 2

3 credit hours - 20 to 40 hours of area-related work experience weekly; one term. Continuation of ACH 275. The work must be certified by the department chair. Prereq(s): ACH 275 and permission of instructor or department chair. Note: Students are strongly encouraged to contact the Coordinator for Internships prior to registration. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

ACH 280-299 - Special Topics in Architecture

-

Current or specialized topics of interest to architecture and interior design students. Possible topics are construction scheduling, construction management, construction estimating, interior architecture and computer-aided design. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-40.

Art

ART 100 - Two-Dimensional Design

3 credit hours - Two hours of lecture and two hours of studio weekly; one term. This course meets the Arts & Humanities General Education Requirement. Introduces the theories and the concepts of basic visual design. Through a variety of studio problems, explore composition and color theory as it relates to two-dimensional art forms. Introduces the computer as a design tool. No previous art instruction is required. Lab fee \$30. Location(s) Typically Offered: Arnold Main Campus (MC), Off Campus (OF), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

1. Critique artwork regarding content, form and craft.
2. Analyze artwork regarding content, form and craft.
3. Develop technical skills with materials in hand and digital media in student created artwork.
4. Apply spatial concepts in a two-dimensional format, including the use of linear perspective.
5. Apply the elements of art and principles of design in student created artwork.
6. Apply basic color theory, including additive and subtractive color systems and structuring of artistic color wheel, various color harmonies in student created artwork.
7. Apply value (light and darks) in student created artwork.

ART 102 - Three-Dimensional Design

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn the application of elements, principles and processes of making three-dimensional art forms. Apply in functional and nonfunctional designs using traditional and contemporary techniques related to clay, wood, metal and mixed medium. Explores the integration of visual elements and design concepts through developing studio projects. No previous art instruction is necessary. Lab fee \$50. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Discuss the role and contributions of three-dimensional design in the advancement of technology, industries and global cultures.
- Use recommended safety practices and studio organization techniques.
- Explain relationships between subject matter, form and content in ancient and contemporary sculptural composition.
- Apply artistic processes such as experimentation, sketching and modeling.
- Apply scale conversion techniques in three-dimensional compositions
- Identify materials properties and physicality in clay, wood, plaster, metal and recycled materials.
- Apply variety of patinas in different materials to surfaces.
- Generate and present comprehensive design proposals.
- Identify elements and principles of design.
- Design a comprehensive proposal to create a three-dimension composition
- Build functional and nonfunctional three-dimensional composition using modeling, cutting, bending, carving and casting techniques.
- Produce sustainable three-dimensional designs by exploring and transforming recyclable materials.
- Apply elements and principles of design to create balanced and charged with self-expression in three-dimensional compositions.
- Analyze methods, techniques and principles of design used in three-dimensional compositions created by other artists.
- Discuss objective and subjective points of view regarding aesthetics decisions made in the making of a three-dimensional composition.

ART 103 – Color

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Learn to work with color by studying color mixing, color relationships and harmonies, color systems, and the psychological and expressive aspects of color. Develop hand skills and digital skills in projects designed for studio artists and commercial designers. No previous art courses are necessary. Lab fee \$30. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify basic color physics and optics.

Identify the three dimensions of color (hue, value, and intensity) in additive and subtractive color systems.
Employ dynamics of color properties and principles of color interaction.
Describe the use of color in the history of art and design.
Identify basic color schemes and harmonies in the creation of visual work.
Demonstrate basic skills in mixing and applying color pigments.
Utilize the psychological and expressive aspects of color through projects and critiques.
Create original designs using principles and elements of design.

ART 106 - Introduction to Digital Design

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

This course meets the Technology Requirement. Learn basic design principles, concepts, and tools used by artists and designers working with digital media. Develop the skills to create, control, and manipulate digital artwork. Explore contemporary digital culture and history while producing original design projects. Lab fee \$40. Location(s) Typically Offered: Arnold Main Campus (MC), Off Campus (OF), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Create original works of art using design software.
Create and edit digital content using digital design tools.
Create presentations, portfolios, and posters for print and online formats.
Analyze different digital design fields, technologies, and processes.

ART 112 - Introduction to Sound Design

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Learn the basics of recording, mixing, and post-processing, as well as the creative possibilities and applications of sound. Gain an understanding of the practical and theoretical skills central to using sound as an artistic medium. Lab fee \$35. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Apply technical knowledge of audio hardware and software to the production of works of art.
2. Apply skills for critical discussion and analysis to one's own work and the work of others.
3. Explore conceptual and aesthetic issues relating to sound through readings, discussion and creative projects.
4. Investigate how other artists make use of sound and related media to create their work.

ART 120 - Digital Photography 1

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Learn the technical and aesthetic properties of digital photography including camera operation, composition and lighting. Gain hands-on experience in photoediting software such as Photoshop and Lightroom. Explore the creative aspects of digital photography through assignments, lectures and demonstrations. Lab fee \$60. Note: *Students are required to provide a manual operation DSLR camera and an external storage device.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Describe the history of digital path.

Trace the history of the lithographic dot versus the digital pixel.
Trace the litho screening technique versus the silicon chip image pixel.
Use appropriate vocabulary for digital photography throughout the course.

Analyze the components of a digital camera.

Differentiate between CCD and CMOS sensors.
Describe the components of picture elements.
Demonstrate the control of curves and levels.

Analyze image file formats.

Differentiate between JPEG, TIFF and raw file data.
Describe the loss of pixel information versus stability of the image.
Explain the process of converting from image file to printer output.

Demonstrate image firmware characteristics.

Format the memory card in camera.
Differentiate between image size and memory card size.
Demonstrate upgrading of camera firmware to newest format using available technology.

Demonstrate image firmware characteristics.

Demonstrate the visual white light wavelength sensitivity versus equal parts of RGB sensitivity.
Adjust the camera's exposure control in relation to the 18% gray card reflection.
Calibrate the camera's white light sensitivity to equal corrected available light color balance.

Analyze principles of depth of field to image sharpness.

Analyze the camera's lens versus image sharpness.
Analyze a given perspective versus its normal angle of coverage.
Analyze image sharpness versus image selective focus.

Complete a visual theme with digital imagery.

Design imagery of a given demographic area.
Construct imagery of the demographic area.
Present completed imagery or photographic essay to the class.

ART 121 - Darkroom Photography 1: Black & White

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Formerly ART 121 - Black and White Photography Explore the art of analog film photography and darkroom techniques. Develop your personal vision through a series of projects that emphasize photography as a form of creative expression. Lab fee \$50. Note: *Students are required to provide photographic printing paper and film. Having a film camera is not required.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Produce black and white photographs using light sensitive materials, including film and paper
Judge the quality of black and white silver gelatin prints
Interpret the aesthetic and conceptual properties of black and white photographs
Critically evaluate images based on form and content

ART 122 - Color Photography

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Explore the science, methodology and aesthetics of printing color photography in a traditional analog method while at the same time investigating issues relating to contemporary fine art photography. Learn to use color photography as a medium for expressive communication through a combination of conceptual and technical assignments. Lab fee \$50. Prereq(s): *ART 121 or permission of department chair.* Note: *Students are required to provide 35mm SLR film camera.*

ART 125 - Drawing 1

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn the essential principles, tools, terminologies and media used in drawing, as well as the critical thinking skills essential to understanding art. Study contour, gesture, modeling, value and perspective with emphasis on drawing from observation. Draw from the model and still life, and explore architecture through the study of perspective. No previous art instruction is necessary. Lab fee \$20. Crosslisted: *Also offered as ART 125H; credit is not given for both ART 125 and ART 125H.* Location(s) Typically Offered: Arnold Main Campus (MC), Off Campus (OF), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Create perspective drawings from direct observation.
Make and justify judgment regarding aesthetic merit and quality in drawings
Discuss the importance of the art of drawing in the larger context of the art making process
Produce work in the studio environment

ART 125H - Drawing 1 – Honors

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

This is an honors course. This course meets the Arts General Education Requirement. Learn the essential principles, tools, terminologies, and media used in drawing, as well as the critical thinking skills essential to understanding art. Study contour, gesture, modeling, value and perspective with emphasis on drawing from observation. Draw from the model and still life, and explore architecture through the study of perspective. No previous art instruction is necessary. Lab fee \$15. Prereq(s): *Eligibility for Honors Courses*. Crosslisted: *Also offered as ART 125; credit is not given for both ART 125H and ART 125*. Location(s) Typically Offered: Arnold Main Campus (MC), Off Campus (OF), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Create perspective drawings from direct observation.
Make and justify judgment regarding aesthetic merit and quality in drawings
Discuss the importance of the art of drawing in the larger context of the art making process
Produce work in the studio environment

ART 131 - Painting 1

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Study the current context, history, materials and techniques of oil painting. Learn about light and shadow while using a limited palette to paint simple still lifes. Develop an understanding of color harmony while creating complex paintings with a full palette. Lab fee \$45. Prereq(s): *ART 125 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

ART 135 - Sculpture 1: Clay Modeling and Mixed Media

3 credit hours - Two hours of lecture and two hours of studio weekly; one term. This course meets the Arts & Humanities General Education Requirement. Learn fundamental sculptural processes including modeling forms in clay, stone carving, mold- making, casting, wood carving and mixed media fabrication techniques. Study the history, design concepts, material/tools, terminology and aesthetics, of sculpture and space. Develop comprehensive sculptural compositions applied in functional/nonfunctional settings and site-specific installations. Lab fee \$65. Note: *No previous art instruction is necessary*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: All terms

Course Outcomes

1. Discuss the ways in which symbolism and cultural esthetics influence design principles and sculptural compositions, as well as the reciprocal influence of sculptors and their work on culture;
2. Produce sculptural forms using various observation techniques, sculpting tools, media, building and casting techniques, and processes including subtraction, substitution, and modeling life models;
3. Discuss the interconnectedness between community development and key roles of sculpture parks, museums and galleries in community engagement;
4. Sketch ideas and design balanced sculptural compositions based on design principles;
5. Apply recommended studio safety guidelines and categorize materials and tools use in the discipline of sculpture;
6. Assess consistencies and ratios when mixing chemically reactive materials such as plaster and resins;
7. Critique work in progress and completed sculptural compositions and formulate dialogues using appropriate terminology in sculpture and
8. Identify elements and principles of sculptural form.

ART 137 – Illustration

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

An introduction to the rendering of visual images to accompany words and ideas effectively. Develops skills for visually conveying information in books, advertising, posters, etc. Both traditional media and the computer are used. Course fee \$15. Prereq(s): *ART 100 and ART 125 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

ART 138 - Metal Art Fabrication

3 credit hours - Two hours of lecture and two hours lab weekly; one term.

Explore basic and advanced techniques and processes related to metal fabrication and sculptural forms. Learn welding techniques, metal forming, and a variety of metal surface applications. Create conceptual artworks with metal art techniques, and practice processes including metal casting. Lab fee \$75. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

1. Discuss historical and cultural applications of metal art fabrication
2. Sketch sculptural concepts based on metal art fabrication processes
3. Produce sculptural compositions using variety of metals art fabrication, techniques and processes
5. Apply recommended studio safety guidelines
6. Categorize materials and tools use metal art fabrication
7. Assess equipment settings related to welding, cutting, and shaping metals
8. Critique work in progress, completed sculptural compositions, and formulate dialogues using appropriate terminology
9. Identify structural and aesthetic properties of metals

ART 140 - Watercolor 1

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Learn the fundamentals of watercolor painting. Study basic techniques and explore the creative possibilities of the medium. Create paintings based on still life, landscape and the figure. Lab fee \$30. Prereq(s): *ART 125 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Understand the innate characteristics of watercolor as an art medium, including transparency vs. opacity, masking techniques, interactions with various substrates, and color mixing properties.
- Demonstrate proficiency in contemporary and global historical technical skills and materials.
- Identify and appropriately use watercolor tools.
- Develop personal goals through individualized interpretations of course projects.
- Communicate and assess visual concepts verbally during critique and in response to lectures.

ART 142 - Portraiture 1

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Learn, through slide lectures and studio demonstrations, the basic concepts and techniques associated with drawing and painting portraits. Work from a model to develop and refine skills. Study anatomical structure of the head and upper torso, facial features, capturing a likeness and composition. Lab fee \$60. Prereq(s): *ART 125 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

ART 145 - Ceramics 1

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn a variety of approaches to making art using clay as the medium. Explore the history, design concepts and studio methods used to make sculptural and functional ceramic forms. Develop skills in hand-building, the potter's wheel, simple molds and glaze application. Explore ways of evaluating the aesthetic value of work. No previous art instruction is necessary. Lab fee \$55. Crosslisted: *Also offered as ART 145H ; credit is not given for both ART 145 and ART 145H.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Identify three different clay bodies.
- Identify five stages of clay from forming through final firing.
- Identify different kinds of kilns and describe the basic process of firing ceramic pieces.
- Identify the basic components of ceramic glazes.
- Identify the elements and principles of design.

Design an overall plan for the process of making a ceramic art form.
 Construct a variety of functional and sculptural ceramic forms using the potter's wheel and several hand-building techniques.
 Decorate clay forms using a variety of surface treatment
 Use the elements and principles of design to create unified and expressive ceramic forms.
 Employ appropriate safety techniques.
 Analyze how ceramic methods, elements and principles of design were used to create ceramic forms and forms made by others.
 Discuss objective and subjective ways of evaluating ceramic art works based on the use of ceramic methods, design concepts and the ability of the piece to communicate.
 Identify characteristic ceramic pieces made in a variety of geographic locations and time frames, and by specific contemporary artists.
 Describe the key roles that ceramic objects have played in the development of technology and human culture.

ART 145H - Ceramics 1 – Honors

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

This is an honors course. This course meets the Arts General Education Requirement. Learn a variety of approaches to making art using clay as the medium. Explore the history, design concepts and studio methods used to make sculptural and functional ceramic forms. Develop skills in hand-building, the potter's wheel, simple molds and glaze application. Explore ways of evaluating the aesthetic value of work. No previous art instruction is necessary. Lab fee \$55. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A*. Crosslisted: *Also offered as ART 145; credit not given for both ART 145H and ART 145*. Note: *Work with faculty member to select a specific project*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Identify three different clay bodies.
 Identify five stages of clay from forming through final firing.
 Identify different kinds of kilns and describe the basic process of firing ceramic pieces.
 Identify the basic components of ceramic glazes.
 Identify the elements and principles of design.
 Design an overall plan for the process of making a ceramic art form.
 Construct a variety of functional and sculptural ceramic forms using the potter's wheel and several hand-building techniques.
 Decorate clay forms using a variety of surface treatment
 Use the elements and principles of design to create unified and expressive ceramic forms.
 Employ appropriate safety techniques.
 Analyze how ceramic methods, elements and principles of design were used to create ceramic forms and forms made by others.
 Discuss objective and subjective ways of evaluating ceramic art works based the use of ceramic methods, design concepts and the ability of the piece to communicate.
 Identify characteristic ceramic pieces made in a variety of geographic locations and time frames, and by specific contemporary artists.
 Describe the key roles that ceramic objects have played in the development of technology and human culture.

ART 146 - Ceramics 2

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Build upon knowledge acquired in ART 145 or ART 145H. Develop a personal artistic direction through interpretation of assigned projects. Study glaze mixing, formulation, kiln-loading and firing. Learn through individual studio work, slide lectures, field trips and critiques. Lab fee \$65. Prereq(s): *ART 145 or ART 145H or permission of department chair*. Crosslisted: *Also offered as ART 146H; credit is not given for both ART 146 and ART 146H*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Learning Outcome 1 - Design and produce ceramic artworks using traditional and innovative forming and decorating methods.

Core Competencies - 01, 04, 05 and 10

Learning Objective 1 - Design overall plans for complex multi-stage and multi-part ceramic forms.

Learning Objective 2 - Construct a variety of functional and sculptural ceramic forms using the potter's wheel and hand-building techniques.

Learning Objective 3 - Decorate clay forms using a variety of multicolored clays, decorative underglaze, ceramic slip and glaze surface treatments.

Learning Objective 4 - Use the fundamental principles of design to create unified and expressive ceramic forms.

Learning Objective 5 - Employ appropriate safety techniques.

Learning Outcome 2 - Demonstrate an understanding of the process for advanced forming techniques, glaze testing and kiln firing schedules.

Core Competencies -06 and 10

Learning Objective 1 - Identify and use a variety of advanced forming and carving methods to form ceramic artworks.

Learning Objective 2 - Identify and describe the basic chemical structure of glazes.

Learning Objective 3 - Design and conduct a personal series of glaze experiments and analyze the results.

Learning Objective 4 - Identify and describe the fundamental chemical and physical changes that occur during important stages in different kinds of kiln firing.

Learning Objective 5 - Program an electric kiln, demonstrating the use of segments that include ramps, set points, and holds.

Learning Objective 6 - Demonstrate an understanding of the Raku firing process by participating in a Raku firing.

Learning Outcome 3 - Demonstrate the ability to analyze the relationships among design elements and to explore an artist's intent to arrive at an overall evaluation of a work of ceramic art.

Core Competencies - 01, 09 and 10

Learning Objective 1 - Examine, analyze and evaluate ceramic art pieces in written form, class presentations and group discussions.

Learning Objective 2 - Apply the principles of analysis and evaluation to personal ceramic artwork.

Learning Outcome 4 - Research and present information about a ceramic art period or a contemporary ceramic artist's work.

Core Competencies - 01, 09 and 10

Learning Objective 1 - Describe the cultural context in which the ceramic artist(s) worked.

Learning Objective 2 - Identify the techniques employed.

Learning Objective 3 - Analyze and describe the role that the specific ceramic artwork plays within a culture.

ART 146H - Ceramics 2 – Honors

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

This is an honors course. Build upon knowledge acquired in ART 145H or ART 145. Develop a personal artistic direction through interpretation of assigned projects. Study glaze mixing, formulation, kiln-loading and firing. Learn through individual studio work, slide lectures, field trips and critiques. Lab fee \$65. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A, and ART 145H or ART 145 or permission of department chair.* Crosslisted: *Also offered as ART 146; credit is not given for both ART 146H and ART 146.* Note: *Work with faculty member to select a specific project.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Learning Outcome 1 - Design and produce ceramic artworks using traditional and innovative forming and decorating methods.

Core Competencies - 01, 04, 05 and 10

Learning Objective 1 - Design overall plans for complex multi-stage and multi-part ceramic forms.

Learning Objective 2 - Construct a variety of functional and sculptural ceramic forms using the potter's wheel and hand-building techniques.

Learning Objective 3 - Decorate clay forms using a variety of multicolored clays, decorative underglaze, ceramic slip and glaze surface treatments.

Learning Objective 4 - Use the fundamental principles of design to create unified and expressive ceramic forms.

Learning Objective 5 - Employ appropriate safety techniques.

Learning Outcome 2 - Demonstrate an understanding of the process for advanced forming techniques, glaze testing and kiln firing schedules.

Core Competencies -06 and 10

Learning Objective 1 - Identify and use a variety of advanced forming and carving methods to form ceramic artworks.

Learning Objective 2 - Identify and describe the basic chemical structure of glazes.

Learning Objective 3 - Design and conduct a personal series of glaze experiments and analyze the results.

Learning Objective 4 - Identify and describe the fundamental chemical and physical changes that occur during important stages in different kinds of kiln firing.

Learning Objective 5 - Program an electric kiln, demonstrating the use of segments that include ramps, set points, and holds.

Learning Objective 6 - Demonstrate an understanding of the Raku firing process by participating in a Raku firing.

Learning Outcome 3 - Demonstrate the ability to analyze the relationships among design elements and to explore an artist's intent to arrive at an overall evaluation of a work of ceramic art.

Core Competencies - 01, 09 and 10

Learning Objective 1 - Examine, analyze and evaluate ceramic art pieces in written form, class presentations and group discussions.

Learning Objective 2 - Apply the principles of analysis and evaluation to personal ceramic artwork.

ART 148 - Intaglio Printmaking 1

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Study the intaglio processes of etching, drypoint and aquatint. Learn the mechanics of printmaking (working of the press, production and biting of the plate, etc.) while exploring the creative possibilities of the medium. Lab fee \$50. Prereq(s): *ART 125 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: All terms

ART 149 - Relief Printmaking

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Study the basics of relief printmaking, including woodcut and linocut. Explore this media as a means of personal expression. Lab fee \$50. Prereq(s): *ART 125 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: All terms

ART 154 - 3D Computer Graphics

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Study the concepts, techniques, and technology commonly used in gaming, entertainment, architecture, and engineering to produce 3D

computer graphics. Learn about modeling, texturing, lighting, rendering, animation, rigging, and dynamics through the creation of virtual 3D objects and images. Lab fee \$30. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Produce Polygon Models using a range of techniques
- Render Scenes using CG Lights, Raytracing, and Radiosity
- Create Materials and Textures for 3D objects
- Animate 3D Objects using Keyframe Animation
- Create and animate FK and IK Character Rigs
- Produce a range of digital special effects
- Produce a demo reel

ART 155 - 2D Game Prototyping

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Learn how to create original 2D games. Design original sprite graphics, and animations. Produce interactive games using a 2D game engine. Lab fee \$30. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Make working 2D Video Game
- Draw and Animate Original 2D Pixel Art
- Produce 2D Environments using Original Tile Sets
- Use Game Engine to make 2D Game Assets Interactive

ART 156 - 3D Game Graphics

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Learn how to create original game assets for use in video games and interactive simulations. Model and texture a variety of game objects, including environments, buildings, and props. Make and modify game textures using 2D graphics software. Create game levels by importing original assets into a 3D game engine. Lab fee \$30. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Create original 3D game assets
- Assign materials and create textures for assets
- Import assets into a game engine
- Optimize assets for use in games
- Use range of polygon modeling techniques to make assets

ART 157 - 3D Game Prototyping

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Learn how to make video games using a 3D game engine and premade assets. Develop skills in level design, scripting, and interface design. Lab fee \$30. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Produce original 3D video games
- Construct games using 3D primitives and imported geometry
- Render game environments using CG lighting and materials
- Use first and third person character rigs to navigate the game space
- Make game dynamic using Game and Physics Engines

ART 158 - Game History

3 credit hours - Two hours of lecture and two hours of lab weekly; one term.

Develop an understanding of the technological, artistic and cultural evolution of video games. Learn about games through readings, lectures and videos. Play games covered in class to gain firsthand understanding of game design and mechanics. Lab fee \$30.

Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Identify major events and developments in history of video games
- Identify individuals who had a major impact on video games
- Play historically relevant games
- Describe history of major game genres

ART 159 - Game Interface Design

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly ART 174 Game Interface Design Learn the thought processes and techniques that go into the creation of digital and physical user interfaces for games. Apply concepts through the designing, building and testing of original interfaces. Study the principles of design, aesthetics and human factors. Lab fee \$30. Note: *Credit will not be given for ART 159 and also ART 174 (formerly).*

Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Create and design original game interfaces
- Develop interfaces for common gaming hardware
- Conduct testing to evaluate and review interfaces
- Apply universal design and accessibility best practices and theory in the creation of interfaces
- Apply graphic design principles and theory in the creation of interfaces

ART 160 - Video 1

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Study film and video production theory and techniques. Learn to create storyboards, to use video equipment, to organize shoots and to put together a video crew. Create, mix and edit images, sounds and video into presentations for various genres. Lab fee \$50.

Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

ART 161 - Video Editing

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Study the art of storytelling through digital video editing. Learn the history, theory, practices and aesthetic qualities of post-production through screenings, discussions, readings and editing lab problems. Lab fee \$40. Note: *It is recommended to take ART 160 before taking ART 161.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

ART 166 - Graphic Design 1

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Use creative and critical thinking skills to research, generate concepts, and create solutions to a broad range of design problems. Learn fundamentals of conceptualization, type and image integration, design-thinking practices, and design terminology. Explore design history and contemporary examples in the field. Develop production techniques using industry software, presentation methods, reflection, and critique. Lab fee \$40. Note: *Students are recommended to take ART 106 prior to taking this course.* Location(s) Typically Offered: Arnold Main Campus (MC), Off Campus (OF), and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Demonstrate knowledge of design history and its impact on modern day design
2. Apply principles of design in the creation of original concepts
3. Demonstrate knowledge of typography, layout and color fundamentals
4. Demonstrate knowledge of industry standard graphic design tools in the design and production process

5. Demonstrate critical thinking skills through the process of critique
6. Apply skills, theory and techniques to a series of original projects presented in a portfolio of work

ART 170 - Web Design 1

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Study concepts integral to designing for the Web, including Web design history, XHTML, CSS, image preparation/optimization, site planning, FTP and design using industry standard applications. Explore the designer's role within professional, cultural and historical contexts. Lab fee \$25. Location(s) Typically Offered: Arnold Main Campus (MC), Off Campus (OF), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Make a detailed plan and prepare images and multimedia resources for a web site.
2. Create a web site design that is consistent with basic design principles and the specific requirements of electronic media on the internet using an authoring program.
3. Construct a web site.
4. Place the web site on a server.
5. Manage the web site while it is in operation.
6. List various factors influencing electronic design.

ART 180 - Introduction to Film

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study of the vocabulary, methods of analysis and standards for criticism of various types of film. Participate in class discussions based on assigned films. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Discuss orally and in writing aesthetic dimensions of film;
- Discuss orally and in writing technical language of cinema;
- Discuss orally and in writing films, genres and movements in certain historical, political, aesthetic and ideological contexts;
- Discuss orally and in writing the application of critical theories to films.

ART 181 - Introduction to American Film

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study the complex relationship between American film and culture. Review and discuss the aesthetics and manifestation of film in American society. Crosslisted: *Also offered as AMS 181; credit is not given for both ART 181 and AMS 181.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Apply an interdisciplinary perspective to the study of American film;
- Discuss the development of the American film industry in terms of aesthetics, genres, narrative formulae, and themes;
- Discuss the development of the American film industry in terms of the studio system, demographics, dominant personalities, politics, and morality;
- Explain the ways in which social factors influence the depiction of American society in film;
- Explain the ways in which American film influences society.

ART 185 - Introduction to Art History

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study the history of art with a global perspective. Learn about painting, sculpture, architecture and other forms of art from pre-historic to modern times. Through lectures, discussions, and class trips, students will be exposed to artworks that shape and inform our world. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: All terms

Course Outcomes

- Explain the social and historical forces that designate artwork as historically significant;
- Develop a model for the creation of creative work that exhibits historical sense across two geographical regions;
- Identify personal experiences that equate art with economic entitlement and stature;
- Compare stereotypes of racial, ethnic, regional, and social communities with the ways in which these communities are commonly depicted in works of art;
- Use a comparative framework to analyze "native" and "emigrated" work;
- Identify the role that museums play in the curation and conservation of art and how they create distinctions between types of art according to social position;
- Develop universally equivalent standards of value for folk, popular, and professional artwork;

ART 200 - Drawing 2

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Examine the theories, techniques, terminologies, and media used in drawing from observation and imagination. Explore a variety of approaches using wet and dry media. Emphasis is on composition utilizing still life, landscape and figure drawing. Lab fee \$30.

Prereq(s): *ART 125 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

ART 201 - Drawing 3

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Experience an enhanced studio atmosphere that encourages personal investigation through the use of conventional and unconventional drawing media. Discover theories and practices with emphasis on individual expression. Explore portraiture, figure drawing and landscape. Lab fee \$30. Prereq(s): *ART 200 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

ART 202 - Life Drawing

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Learn how to draw the human figure. Study the skeleton and muscles and how they affect surface anatomy. Explore expressive possibilities of the figure by extensive drawing of the nude. Study the history of the figure. Lab fee \$50. Prereq(s): *ART 125 or permission of department.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

- Visually express through line, shape, value, and texture the character of the human figure;
- Visually express the human figure in a variety of styles and techniques;
- Visually express aspects of anatomy relevant to artists;
- Visually express how perspective operates on the figure;
- Visually express how the figure may be used conceptually and / or expressively in an artwork;
- Verbally articulate the formal elements of figure drawing;
- Critically analyze figure drawings based on knowledge of the formal elements;
- Discuss the historical context and importance of figure drawing.

ART 209 - History of Western Art: Ancient to Medieval

3 credit hours - Three hours weekly; one term.

Formerly ART 209 - History of Western Art 1 This course meets the Arts & Humanities General Education Requirement. An introduction to the development of art and architecture in and around the Mediterranean from prehistoric times through the Middle Ages. Class discussions are supplemented by trips to museums in the Baltimore- Washington area. No previous art courses are necessary. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the major cultures of the Ancient World and Medieval Europe
2. Describe the artistic and historical achievements of each culture

3. Situate artistic styles within socio-historical contexts
4. Identify iconography (subject matter and meaning) peculiar to a specific era or geographic region and explain its significance to that culture
5. Describe the techniques used in creating different categories of art objects

ART 210 - History of Western Art: Renaissance to Present

3 credit hours - Three hours weekly; one term.

Formerly ART 210 - History of Western Art 2 This course meets the Arts & Humanities General Education Requirement. An introduction to the development of art and architecture in Europe and the Americas from the Renaissance to the present. Class discussions are supplemented by trips to museums in the Baltimore-Washington area. No previous art courses are necessary. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students should be able to:

- Identify the major art movements in Europe and America from the Late Medieval period to the 21st century.
- Describe the artistic achievements, development of artistic styles, and notable political and social events of each time period and region.
- Identify major artists from each period/region and their styles.
- Identify iconography (subject matter and meaning) in the art peculiar to a specific time period and region and explain its significance.
- Describe the techniques used in creating different categories of art objects.
- Identify the characteristics that enable us to accurately identify Renaissance and Baroque work.

ART 212 - History of Photography

3 credit hours - Three hours weekly; one term.

Formerly ART/CAT 212 - History of Photography This course meets the Arts & Humanities General Education Requirement. Learn about the development of photography from its pre-history through today. Study interrelationships between photography and other visual arts. Explore the contribution of major photographers, art movements, culture and the effects of changing technology on the photographic image. Participate in trips to museums in the Baltimore-Washington area. Note: *Students may be required to pay a nominal fee for field trips.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Analyze the significance of photographic processes and styles of early prominent photographers;
- Articulate the evolution of photography from a technological medium into an art form;
- Discuss orally and in writing how photography is used to explore not only individual views but also culture's definitions, values, and ideas;
- Explain the ethical and cultural awareness stimulated by the practice of photography throughout past and present history.

ART 215 - Notable Film Directors

3 credit hours - Three hours weekly; one term.

Study films of internationally recognized film directors. View films by several directors outside of class. Apply various critical methodologies to interpret the films. Prereq(s): *ART 180 or AMS 181 or ART 181 or permission of program coordinator.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

ART 216 - Independent Film

3 credit hours - Three hours weekly; one term.

Study feature-length films made independently of mainstream Hollywood, focusing on issues of narrative convention and audience expectation, race, gender and sexual orientation. Study filmmakers who choose to remain free of Hollywood's ideological constraints or are unable to secure funding for their films within the industry. Participate in class discussion based on the assigned films. Prereq(s): *ART 180 or AMS 181 or ART 181 or permission of program coordinator.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

ART 218 - Creative Writing: Writing for the Stage and Screen Workshop

3 credit hours - Three hours weekly; one term. Analyze successful stage plays and screenplays with an eye toward original composition. Discover how to tell gripping stories and learn the fundamental principles and techniques of shaping those stories for the stage and for the screen. Explore ways of building compelling characters, writing effective and memorable dialogue, and structuring dramatic and cinematic acts and scenes. Share writing during workshop sessions in order to hone drafts, develop critical thinking skills and refine individual style. Prereq(s): *ART 180 or ENG 200 or THA 125 or permission of the department chair.* Crosslisted: *Also offered as ENG 203; credit is not given for both ART 218 and ENG 203.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze work written by established and contemporary playwrights and screenwriters and recognize themes and techniques.
- Write competent and original plays and screenplays.
- Use a range of stage terms and techniques to discuss their own plays and the plays of their peers.
- Use a range of film and screenplay terms and techniques to discuss their own screenplays and the screenplays of their peers.
- Critique the plays and screenplays of their peers in a workshop environment.
- Revise their plays and screenplays by integrating critique from instructor and peers into their revision process.
- Articulate how they are using critique to raise their work to a higher standard.
- Describe the production process of staging a play and/or filming a screenplay.

ART 219 - History of American Art

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. An introduction to American architecture, painting, sculpture and the decorative arts from the Colonial period to the present. Discussions of slides are supplemented by trips to museums in the Baltimore-Washington area and by tours of Annapolis architecture. No previous art courses are necessary. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Recognize and analyze the elements of works of art in all the major Western visual media and articulate aesthetic responses to such works.
2. Recognize the major periods, styles, ideas, works, and artists of American art from the Colonial period through the present.
3. Interpret works of art as expressions not only of an individual artist but also of a culture's definitions, values, and ideas.
4. Demonstrate an understanding of the materials, methods, vocabulary, and concepts of art and art history.

ART 220 - History of Modern Art

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. An introduction to the history of Western art since 1800. Although the emphasis is on architecture, painting and sculpture, some time is devoted to the development of photography and industrial and urban design. Discussions of slides are supplemented by trips to museums in the Baltimore-Washington area. No previous art courses are necessary. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Recognize and analyze the elements of works of art in all the major Western visual media and articulate aesthetic responses to such works.
2. Recognize the major periods, styles, theories, artists, and works in the last two centuries of Western art history.
3. Interpret works of art as expressions of an individual's and a culture's definitions, values, and ideas and to be able to articulate those ideas.
4. Demonstrate an understanding of the materials, methods, vocabulary and concepts of art and art history.

ART 221 - History of World Architecture: Ancient to Medieval

3 credit hours - Three hours weekly; one term

Formerly ART 221 - History of World Architecture 1 This course meets the Arts & Humanities General Education

Requirement. Examine the development of world architectural styles from the ancient world through the late Middle Ages. Learn architectural design and city planning as responses to religious, political, economic, and cultural needs, as well as for an understanding of their structural principles. No previous art courses are necessary. Crosslisted: *Also offered as ACH 221; credit is not given for both ACH 221 and ART 221.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Identify major styles, theories, architects, and architectural works from prehistory through the Middle Ages
2. Interpret architecture as expressions of an individual's and a culture's definitions, values, and ideas
3. Apply the vocabulary, methods, materials, and concepts of architecture and articulate responses to architecture as artistic or cultural expression

ART 222 - History of World Architecture: Renaissance to Present

3 credit hours - Three hours weekly; one term.

Formerly ART 222 - History of World Architecture 2 This course meets the Arts & Humanities General Education Requirement. Examine world architectural styles from the Renaissance through the present. Learn architectural design, landscape architecture, and city planning as responses to religious, political, economic, and cultural needs. No previous art courses are necessary. Crosslisted: *Also offered as ACH 222; credit is not given for both ART 222 and ACH 222.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify major styles, theories, architects, and architectural works from the Renaissance through the twentieth century
- Interpret architecture as expressions of an individual's and a culture's definitions, values, and ideas
- Apply the vocabulary, methods, materials and concepts of architecture to articulate responses to architecture as artistic or cultural expression

ART 223 - History of American Architecture

3 credit hours - Three hours weekly; one term.

An introduction to the development of American architecture, interior design, urban design and landscape architecture from pre-colonial times to the present. Particular attention will be paid to the old and new world sources of American design, as well as to the cultural, political, economic and environmental forces that have shaped the American built environment. Lectures and discussions will be supplemented by field trips. No previous art courses are necessary. Crosslisted: *Also offered as ACH 223 and AMS 223; credit is given only one of the following: ACH 223, AMS 223 or ART 223.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Interpret the built environment as an expression of cultural beliefs, values and history.

- Discuss how different styles of architecture reflect social and political beliefs of the time.
- Explain how specific religious architecture reflects the tenets of the religion.

Demonstrate an understanding of the materials, structural principles, vocabulary and concepts of architectural history.

- Explain how a particular design works structurally.
- Describe how a particular design works visually.
- Explain the impact of available resources and technology on architectural structure.

Explain the influence of Old and New World cultures on American architecture.

- Explain how the Native American cultures influenced later American architectural forms.
- Explain what European cultures contributed to American architectural designs.

Demonstrate an understanding of the evolution of American architectural styles from the time of pre-colonial cultures to the present.

- Describe how our approaches to landscape architecture evolved from pre-colonial times to the present.
- Explain how American ideas about city planning have changed from colonial times to the present.
- Describe how American domestic architectural styles have evolved from pre-colonial times to the present.

Analyze the influence of environment, resources and new technology on the history of American architecture.

- Explain the history of industrial revolution influenced the history of American architecture.
- Explain how environmental factors influence architectural design.

Articulate the impact of American architectural ideas and theories on world architecture in the last fifty years.

Explain the influence of American architects on residential architecture in European countries.

Describe the impact of the International Style as developed in the United States on twentieth century global architecture.

ART 224 - Introduction to Historic Preservation

3 credit hours - Three hours weekly; one term.

An introduction to the field of historic preservation, including its history, practices and philosophical and legal dimensions. Lectures will be supplemented by field trips to local historic sites and preservation agencies. No previous art courses are necessary. Crosslisted:

Also offered as AMS 224; credit is not given for both ART 224 and AMS 224. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

ART 227 - Asian Art

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Survey the artistic traditions of South Asia, China, Japan and the Islamic world, beginning with the earliest cultures and ending with contemporary works. Analyze Asian architecture and fine arts in a variety of media. Explore Asian belief systems and their influence on artistic and social expression. Class discussions will be supplemented by field trips. No previous art courses are necessary. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Describe main tenets of art history.

Develop familiarity with formal elements and viewers' experience of art media.

Analyze art as expression of personal and cultural values.

Develop familiarity with broad scope of Asian arts.

Define Asia as place and artistic realm.

Identify importance of trade routes and trade history in shaping Asian culture.

Analyze regional characteristics of South Asian arts.

Analyze general and regional characteristics of arts of China and Japan.

Develop sense of identity for South Asia based upon its geography and chronology.

Identify characteristics and meanings for Hindu arts.

Identify characteristics and meanings for Buddhist arts.

Identify characteristics and meanings for secular South Asian arts.

Analyze general and regional characteristics of Islamic arts.

Describe impact of Islam on visual arts throughout region.

Differentiate aesthetics of secular and religious art.

Focus on book arts as artistry and craftsmanship.

ART 228 - African American Art

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Study African American visual arts encompassing African art forms, the arts of the African Diaspora, and the varied work of African-American artists. Lectures and discussions will be supplemented by trips to museums in the Baltimore-Washington area. No previous art courses are necessary. Crosslisted: *Also offered as AFA 228; credit is not given for both ART 228 and AFA 228.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Explain how the African American experience is expressed in the visual arts.

Evaluate the characteristics of African American art in their relationship to cultural traditions, including those of Western Europe, Africa and the Caribbean.

Evaluate the role of African American art as a means of expressing individual and cultural struggles for cultural identity and social equality.

Apply appropriately the materials, methods, vocabulary, and concepts of art and art history.

ART 229 - Indigenous Art

3 credit hours - Three hours weekly; one term.

Formerly ART 229 - Art of Traditional and Tribal Cultures This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Study art forms of Indigenous peoples of sub-Saharan Africa, the pre-Columbian Americas, Australia and Oceania through an understanding of their cultural contexts. Discussions are supplemented by trips to museums in the Baltimore-Washington area. No previous art courses are necessary. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Identify and analyze the elements of works of art from the major regions of sub-Saharan Africa, pre-Columbian America, and Oceania, and articulate esthetic responses to such works.

Articulate the interconnection between the form of artworks from sub-Saharan Africa, pre-Columbian America, and Oceania and their cultural function.

Interpret works of art as expressions of a culture's values, traditions, and ideas, and articulate those ideas

Identify and use appropriately the materials, methods, vocabulary, and concepts of art and art history.

ART 230 - Art Portfolio Development

1 credit hour - One hour weekly; one term.

Introduces the process of assessing, documenting and presenting artwork. Focuses on how artwork is evaluated by transfer schools and galleries. Prepares students for the next step in their academic or professional careers. Lab fee \$20. Prereq(s): *Nine credits of art courses (preferably studio art courses) or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Identify an academic or professional goal in art

Create a cohesive art portfolio

Present their portfolio to transfer schools or art galleries

ART 231 - Photography Portfolio Development

1 credit hour - One hour weekly; one term. Learn the skills of selecting, editing and presenting a personal photographic portfolio.

Focus on how work is evaluated by transfer schools, potential employers and galleries. Produce both traditional photographic print and digital photography portfolios. Lab fee \$30. Note: *Students must have completed nine credits of photography courses prior to enrolling in this course.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Identify core images and materials for portfolio presentation

Present the portfolio professionally and effectively

ART 232 - Painting 2

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Build upon knowledge and skills acquired in ART 131. Learn composition, form and content while working from a variety of subjects including landscape painting. Lab fee \$60. Prereq(s): *ART 131 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

ART 233 - Painting 3

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Build upon knowledge and skills acquired in ART 232. Concentrate on individual direction and self-expression. Lab fee \$60.

Prereq(s): *ART 232 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

ART 234 - Painting and Abstraction

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term. Discover the history of abstraction with a focus

on painting. Learn abstraction as an artistic concept and as a technique for creating artwork. Create abstract paintings using a variety of materials and methodologies. Develop your own creative vision when making an abstract painting through independent projects, demonstrations, and critiques. Lab fee \$40. Prereq(s): *ART 125 or permission of department chair*. Note: *May be repeated for credit; a total of 6 credits may be earned*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

At the completion of this course, the student will be able to:

- Explain abstraction as a concept and a technique for creating art
- Discuss the history of abstraction in art with a focus on painting
- Identify the major movements and developments in abstract painting that have occurred throughout art history
- Utilize a variety of materials and methodologies to create their own abstract paintings, including drawing, collage, and technology when appropriate
- Develop their own creative vision when making an abstract painting
- Critique abstract artwork intelligently, utilizing vocabulary and a level of discourse appropriate to the subject matter

ART 235 - Sculpture 2

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Build upon knowledge and skills acquired in ART 135. Develop an understanding of the elements of sculptural form while investigating and refining a number of sculptural materials and processes including casting. Lab fee \$65. Prereq(s): *ART 135 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

ART 236 - Digital Photography 2

3 credit hours - Two hours of lecture and two hours of laboratory; one term. Gain the skills needed to produce more expressive, thought-provoking photographs, using the tools of the digital darkroom. Develop technical expertise in camera operation while also getting hands-on experience with photographic software such as Photoshop and Lightroom. Learn advanced techniques for color management and inkjet printing. Lab fee \$60. Prereq(s): *ART 120 or permission of department chair*. Note: *Students must have a DSLR camera and an external hard drive for the class*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

ART 237 – Photojournalism

3 credit hours - Two hours lecture and two hours of laboratory weekly; one term.

Learn the process of documenting a news story using digital photography. Explore how lens perspective is used to capture and enhance visual impact, while creating a photographic essay. Lab fee \$50. Prereq(s): *ART 120 or permission of department chair*. Note: *Students are required to provide a digital single lens reflex (D-SLR) camera*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Operate digital SLR

- Identify the parts and functions of DSLR
- Identify the correct use of different lens sizes

Demonstrate use of color awareness

- Identify complementary and analogous color schemes
- Identify the power of color

Demonstrate the use of contrast control

- Identify the separation of tonal arrangements
- Demonstrate the capture of the calibrated gray scale

Demonstrate the use of perspective control

- Identify the appropriate millimeter (mm) lens size for correct perspective
- Practice creating strong and weak perspectives

Demonstrate the uses of indoor and outdoor lighting techniques

- Demonstrate the proper use of on location lighting
- Demonstrate the use of proper lighting ratio
- Demonstrate the use of the equation of the working f stop

Apply the principles of digital capture and output

Demonstrate the proper uses of electronic image transfer

Demonstrate the ability to transfer a digital capture from an on location photo sessions in timely manner

Create photographic essays applying the critical rules of photojournalism

Capture with integrity the subject matter

Display by imagery the integrity of the subject matter

Illustrate the use of five photographic essay principles

ART 238 - Alternative Photographic Process

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term. Explore a range of non-traditional photographic methods including the use of infrared film, analog film manipulation, turn of century non-silver iron salt hand-coated sensitizers and new technology of producing digitally generated large-format negatives. Lab fee \$60. Prereq(s): *ART 121 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

ART 239 - Techniques of Photographic Lighting

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term. Explore the rules and qualities of lighting techniques for portraits, large and small product illustration, glassware and art reproduction. Learn a range of studio and on location methods including umbrellas and tents with emphasis on lighting ratios, capture control and presentation. Lab fee \$50. Prereq(s): *ART 120 or ART 121 or permission of department chair.* Note: *Students are required to have a manual operation DSLR camera.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

ART 240 - Watercolor 2

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Build upon knowledge and skills learned in ART 140. Explore a variety of techniques while working from the figure, still life, interior and landscape elements. Study the expressive potential of the medium. Lab fee \$30. Prereq(s): *ART 140 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

ART 242 - Portraiture 2

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Build upon knowledge acquired in ART 142. Explore paint media and use various techniques and compositional devices while working from the model. Develop an understanding of the emotive and expressive qualities embodied in portrait painting. Lab fee \$60. Prereq(s): *ART 142 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

ART 244 - Materials and Methods of Painting and Drawing

3 credit hours - Two hours of lecture and two hours of studio weekly; one term. Explore historical and contemporary art media associated with painting and drawing by making studio projects. Work directly with art materials, and learn techniques and best practices based on their physical properties. By experimenting with a range of media, discover which materials are best suited for your art trajectory. Explore media including silverpoint, ink, egg tempera, oil glazes, acrylic, and airbrush; and substrates including paper, canvas, and panels. Lab fee \$40. Prereq(s): *ART 100 or ART 125 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Understand the contributions of artists and inventors globally and across time to contemporary practices in two-dimensional studio arts.

Develop technical proficiency with a range of two-dimensional art materials.

Create two-dimensional art studies that underscore the role of materials and methods in good composition.

Analyze the esthetic features of two-dimensional art studies made by themselves and others.

ART 245 - Ceramics 3

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Build on the knowledge acquired in ART 146 or ART 146H. Specialize in an area of personal interest, such as wheel-thrown wares, hand-built pieces or sculpture. Explore, experiment with, and participate in the functioning of the ceramics studio to develop personal

forms of expression. Lab fee \$75. Prereq(s): *ART 146 or ART 146H or permission of department chair*. Crosslisted: *Also offered as ART 245H; credit is not given for both ART 245 and ART 245H*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Design and produce a series of functional or sculptural ceramic artworks exploring a personal area of interest.

Learning Objective 1 - Design an overall plan for creating ceramic forms.

Learning Objective 2 - Construct a variety of functional or sculptural ceramic forms using personally selected methods of forming.

Learning Objective 3 - Explore a variety of decorating and glazing techniques that are selected to suit individual forms.

Demonstrate an understanding of clay and glaze chemical and physical characteristics, and how to test them.

Learning Objective 1 - Describe the characteristics and interactions among each of the basic glaze chemical groups.

Learning Objective 2 - Design and produce a personal series of glaze experiments and analyze the results.

Learning Objective 3 - Design a series of glaze tests to solve a glaze problem.

Demonstrate an understanding of kiln firing schedules and how to adjust them to obtain specific results.

Learning Objective 1 - Describe the fundamental chemical and physical changes behind important stages in different kinds of kiln firing.

Learning Objective 5 - Program an electric kiln, demonstrating the use of segments that include ramps, set points, and holds.

Demonstrate the ability to observe and analyze a work of ceramic art and to explore an artist's intent to arrive at an overall evaluation of an artwork.

Learning Objective 1 - Examine, analyze and evaluate ceramic art pieces in written form, presentations and group discussions.

Learning Objective 2 - Apply the principles of analysis and evaluation to personal ceramic artwork and apply the information to design and construct new pieces, exploring a personal area of interest.

ART 245H - Ceramics 3 – Honors

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

This is an honors course. Build on the knowledge acquired in ART 146 or ART 146H. Specialize in an area of personal interest, such as wheel-thrown wares, hand-built pieces or sculpture. Explore, experiment with, and participate in the functioning of the ceramics studio to develop personal forms of expression. Lab fee \$75. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A; and ART 146 or ART 146H or permission of department chair*. Crosslisted: *Also offered as ART 245; credit is not given for both ART 245H and ART 245*. Note: *Work with faculty member to select a specific project*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Design and produce a series of functional or sculptural ceramic artworks exploring a personal area of interest.

Design an overall plan for creating ceramic forms.

Construct a variety of functional or sculptural ceramic forms using personally selected methods of forming.

Learning Objective 3 - Explore a variety of decorating and glazing techniques that are selected to suit individual forms.

Demonstrate an understanding of clay and glaze chemical and physical characteristics, and how to test them.

Describe the characteristics and interactions among each of the basic glaze chemical groups.

Design and produce a personal series of glaze experiments and analyze the results.

Design a series of glaze tests to solve a glaze problem.

Demonstrate an understanding of kiln firing schedules and how to adjust them to obtain specific results.

Describe the fundamental chemical and physical changes behind important stages in different kinds of kiln firing.

Program an electric kiln, demonstrating the use of segments that include ramps, set points, and holds.

Demonstrate the ability to observe and analyze a work of ceramic art and to explore an artist's intent to arrive at an overall evaluation of an artwork.

Examine, analyze and evaluate ceramic art pieces in written form, presentations and group discussions.

Apply the principles of analysis and evaluation to personal ceramic artwork and apply the information to design and construct new pieces, exploring a personal area of interest.

Research and present information about a ceramic art period or a contemporary ceramic artist's work.

Explore the concept development, design process and methods used in the creation of ceramic artworks.

Research and present the contextual background development of a group of ceramic artworks

Discuss objective and subjective ways of critically analyzing and evaluating artwork.

ART 246 - Screen Printing

3 credit hours - Two hours of lecture and two hours of lab weekly; one term.

Explore screen printing in a professional print shop setting. Learn both traditional and contemporary methods of stencil making, film preparation and printing methods using various papers, surfaces and materials. Learn digital film outputting, mixing gradations with ink and multi-color registration. Create a body of artwork through independent projects that build upon knowledge attained during classroom lectures, demonstration and critiques. Lab fee \$60. Prereq(s): *ART 100 or ART 125 or permission of department chair.*

Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: All terms

ART 247 - Lithographic Printmaking

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Learn the fundamentals of lithography. Explore the basic techniques (plate preparation, etches and counter etches), materials (crayon, tusche and new media), and print methods (working the press, ink, and paper) to create fine art lithographs. Lab fee \$50. Prereq(s):

ART 125 or permission of department chair. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: All terms

Course Outcomes

Create a portfolio of art images using lithographic processes.

Demonstrate a consistent viewpoint in an edition of prints.

Compose artwork using coherent principles of form and design.

Demonstrate an understanding of the materials, principles, vocabulary and concepts of lithography.

Explain how a particular lithograph works technically.

Describe how a particular lithograph works visually.

Demonstrate an understanding of the impact of historical lithography on contemporary lithographic practices.

Explain how Aloys Senefelder's material discoveries of lithographic principles influence present-day lithography.

Explain the relationship between commercial and fine art lithographic practices.

Evaluate the continued debate over the use of limestone versus metal as a print matrix.

Demonstrate an understanding of technical lithographic processes.

Create a consistent portfolio of prints using regulated etches.

Create a consistent portfolio of prints using shellac printing base.

Demonstrate an understanding of the esthetics of lithographic processes.

Explain how the use of printed marks differs from painted or drawn marks.

Explain the graphic qualities of planographic artworks.

ART 248 - Intaglio Printmaking 2

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Build upon knowledge and skills acquired in ART 148. Learn how to create different etchings including color, deep, lift ground and soft ground techniques. Develop personal forms of expression while exploring new printmaking methods. Lab fee \$50. Prereq(s): *ART 148.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to demonstrate:

- a. The ability to work with the following methods of intaglio printmaking: color etching, sugar lift, deep etch, and soft-ground etching,
- b. An ability to work with the materials and equipment used in intaglio printmaking in a safe, efficient, and knowledgeable manner,
- c. An increased ability to troubleshoot problems in this form of printmaking,
- d. An enhanced critical capacity for judging effective visual composition,
- e. An enhanced ability to think visually.

ART 249 - Metal Casting

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Learn the technical, historic, and aesthetic aspects of metal casting processes related to sculpture. Develop skills in wax working, mold making, metal casting, metal finishing/chasing, and patina applications, with an emphasis on foundry safety. Lab fee \$95. Prereq(s): *ART 135 or ART 138 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Discuss historical and cultural applications of metal casting
- Produce sculptural compositions using metal casting materials, techniques, and processes
- Design complex molds using techniques and processes related to metal casting
- Apply recommended studio safety guidelines and categorize materials and tools used in metal casting
- Assess consistencies and ratios when mixing chemically reactive materials such as sand, resin, and silicone
- Critique work in progress and completed metal cast sculptures and formulate dialogues using appropriate terminology
- Identify mold design elements

ART 250 - Digital Portfolio Development

1 credit hour - One hour weekly; one term.

Learn the process of selecting, editing, documenting and presenting personal work for a digital portfolio. Focus on how graphic design, animation, photography, and video are evaluated by transfer schools and employers. Prereq(s): *Nine credits of ART courses or permission of department chair.* Note: *This course is intended for Digital Arts and Film Studies students who are near to completing their degrees or certificates.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

ART 251 - Animation 1

3 credit hours - Two hours lecture and two hours lab weekly; one term.

Explore the rich tradition in animation from basic principles and concepts of hand drawn to modern digital techniques using both 2D and 3D technology. Learn firsthand Disney's 12 principles of animation and the industry standard production process. Create scripts, storyboards, rough animatics and full animation using keyframes and in-betweens. Lab fee \$30. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Create basic character animations
- Create short narrative sequences
- Explain the animation production process
- Apply traditional animation concepts and techniques
- Identify major events and individuals in the history of animation

ART 252 - Animation 2

3 credit hours - Two hours lecture and two hours laboratory weekly; one term.

Create original animations with an emphasis on acting and storytelling. Utilize 2D and 3D software to manipulate facial expressions, body language, and dialogue to produce short narrative sequences. Learn to develop characters with an emphasis on weight and timing to convey the illusion of life. Lab fee \$30. Note: *Although ART 251 and ART 252 can be taken in either order, the sequential order is recommended.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Create looping animated actions
- Convey plot, emotion, and thought through character motions, gestures, body language, and facial expressions
- Control character weight and timing through dynamic movements to convey the illusion of life
- Create a scene in which multiple characters interact and move together
- Create short narrative sequences telling a story or comical gag
- Use various camera angles to help tell a narrative and emphasize moments

ART 255 - Game Development

3 credit hours - Two hours of lecture and two hours of lab weekly; one term. Collaborate with a team of students on a semester long project working on the development of a real game or simulation. Learn about the game creation pipeline and project management. Lab fee \$30. Prereq(s): *ART 155 or ART 157 or ART 159 (formerly ART 174) with a grade of C or better, or permission from the academic chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

At the completion of this course, students will be able to:

- Explain different game careers and professions
- Analyze game development processes and pipelines
- Generate and select original game concepts
- Prepare promotional game materials for advertising and fund raising
- Determine the production costs and timeline for a game

ART 258 - Game Character Design

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Learn through hands on experience the process of creating 3D video game characters. Create polygonal models, generate textures and normal maps, rig, animate, and export assets into a game engine to produce a fully playable game character. Lab fee \$30. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

- Model and design a 3D game character
- Create and apply maps and textures to a 3D game character
- Rig and animate a 3D game character
- Import a 3D game character into a game engine
- Make a 3D game character interactive in a game engine

ART 259 - Gaming Practicum

3 credit hours - One and one half hours of seminar and six hours of related work weekly; one term.

Focus on various game development topics not ordinarily emphasized in other gaming courses, and work on student games under the supervision of a faculty advisor. Lab fee \$30. Prereq(s): *Permission of department.* Note: *Course may be repeated for a total of 12 credit hours.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Identify their goals for the game practicum
2. Implement a plan to meet their individual goals

ART 260 - Video 2

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Build on knowledge and skills acquired in ART 160. Study hands on pre-production, production, post production, studio production and distribution through the creation of original videos. Lab fee \$50. Prereq(s): *ART 160 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

ART 262 - Image & Design

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly ART 117 - Digital Imaging Learn design principles, concepts, and processes used by artists and designers to create digital

imagery. Develop the skills to conceptualize, manipulate, and design digital images for a variety of media including print and online. Explore contemporary digital culture and history while producing original design portfolio projects. Lab fee \$40. Prereq(s): *ART 106, or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

- Create original works of art using design software.
- Create and edit digital imagery using design software.
- Create presentations, portfolios, and posters for print and online formats.
- Interpret digital images used in mass media today.
- Analyze the aesthetic quality of digital works of art.
- Analyze different digital design fields, technologies and processes.

ART 264 - Fundamentals of Typography

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Explore the conceptual and production process of typographic design. Study its history, technology, anatomy, and implementation. Work with traditional methods and software to develop letterforms and organize type. Lab fee \$40. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Highlight major points in typographical history

- Utilize library resources to research a historical typographic topic
- Apply facts and details found during research in a professional design format

Apply basic research techniques to the discipline

- Utilize a variety of media (books, online, periodicals, alternative) effectively
- Utilize ARTstor image database to locate appropriate sources for use in the design project

Articulate using vocabulary appropriate to the discipline

- Articulate historical information in an oral presentation given to class
- Speak coherently and critically during critiques
- Reference methods and techniques during critiques

Demonstrate knowledge of the letterform and it's relation to language and communication

- Break down the general anatomy of a letterform
- Identify cap height, x-height, ascenders, descenders, baselines and how they come together to create a typographic form
- Apply techniques discussed in the creation of typefaces, fonts, etc.

Apply principles of the letterform using traditional and modern techniques

- Apply skills in hand drawing letterforms
- Apply skills in technological creation of letterforms

Demonstrate knowledge of typography and it's relationship with branding

- Demonstrate knowledge of the role of the use of consistent type families in corporate identity and branding
- Apply concepts of kerning, tracking and stacking in the creation of logotypes

Apply type as a branding method in the development of logotypes and corporate identities

- Create original logo designs employing only typography and color
- Explore the relationships established in a branding package

Demonstrate knowledge of typeface classifications

- Identify different type classifications, and give examples of font families for each
- Incorporate knowledge of type classification in original design work

Distinguish between typographers historically comparing printers, 20th century typographers and contemporary typographers

- Explore how the role of typographer has contributed to graphic design using research methodology
- Present information based on previous research in a custom design piece

Apply typographic layout techniques in a design environment

- Demonstrate knowledge of white space, alignment, and other layout techniques
- Apply layout techniques previously discussed in an original work or design

Apply typographic spacing and alignment techniques in a creative manner

- Demonstrate knowledge of the importance of spacing and alignment in typographical treatments
- Explore tracking, alignment and stacked type in an original design example
- Apply typographical hierarchy and emphasis in a design environment**
 - Demonstrate knowledge of hierarchy in a typographical layout
 - Apply hierarchical techniques to explore emphasis in an original design
- Demonstrate knowledge of the typographical grid and Golden Section**
 - Employ research techniques to explore the history of the Golden Section
 - Demonstrate knowledge of how the typographical grid system has been used historically in the design world
- Apply single, multi-column and modular grid systems in a design environment**
 - Demonstrate knowledge of the three grid systems and explain differences between the systems
 - Apply specific grid styles in original design pieces
- Demonstrate knowledge of typographic organization**
 - Explore organization in a typographic piece
 - Establish chaos in a design through disorganized arrangement of typefaces, establishing pattern
- Demonstrate knowledge of the different mediums for presenting type, such as print, interactive and public spaces**
 - Provide contemporary examples of typography through research of various mediums
 - Demonstrate knowledge of how mediums have changed historically
- Apply a typographical design across various mediums**
 - Create an original design concept and explore how it might be employed across different mediums
 - Execute an original design concept across various mediums
- Apply type as an expressive means in the design environment**
 - Demonstrate knowledge of how expressive type is used in the art and design worlds
 - Explore concepts of expressive type through original work.

ART 266 - Graphic Design 2

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Practice and apply skills required to design and publish print documents. Learn techniques for integration of typography, graphic skills to design and produce artwork and page layout fundamentals to combine text and graphics in a single document. Explore client relationships in the graphic design world. Design fliers, brochures, newsletters, corporate identity packages and more. Lab fee \$40. Prereq(s): ART 166 or permission of department chair. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

ART 268 - User Experience Design for the Web

3 credit hours - Two hours of lecture and two hours of lab weekly; one term.

Learn the process of creating a successful website through effective information architecture, research, strategy, and prototyping. Create wireframes, sitemaps, and other industry deliverables that communicate the business goals and user needs of a website. Develop and conduct usability studies to measure the performance of websites. Lab fee \$40. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

- Develop a research plan to understand user goals
- Create a functional specification for a website
- Plan and implement a usability test
- Organize a website based on user research
- Design wireframes
- Build a site map for a website
- Create a prototype of a website for testing purposes
- Document their findings for clients, developers, and designers

ART 269 - Responsive Web Design

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Learn the process of planning, designing and building of responsive websites including project planning and wireframing, creation of mood boards and design comps. Create websites using responsive frameworks, incorporating multi-sized graphics and adaptive content, across desktop, tablet and mobile devices. Prereq(s): ART 170 or permission of department chair. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

ART 270 - Web Design 2

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Study advanced techniques, concepts, and strategies developed in Web Design 1. Work independently, in teams and with real clients, on the design and production of professional quality Web projects incorporating social media, multimedia, blogs, email marketing and other Internet technologies. Lab fee \$25. Prereq(s): *ART 170 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Discuss current and evolving trends and concepts in the web design industry

Apply formal principles of design to original work.

Demonstrate the ability to write standards-compliant CSS.

Demonstrate knowledge of design and usability concepts from an aesthetic standpoint.

Demonstrate advanced interface design and GUI considerations.

Prepare advanced storyboards, grids, and comps.

Apply advanced typographical, image and design concepts in original work.

Recognize the importance of service learning.

Reflect on the project process through design briefs.

Demonstrate estimation process for timeline, cost and build process.

Demonstrate creative design and concept development.

ART 275 - Digital Arts Internship

3 credit hours - One hour seminar, eight hours related work experience weekly; one term.

Acquire practical experience in a work environment related to the fields of graphic design, Web design, game development or media productions. Set internship objectives jointly with instructor and supervising employer. Prereq(s): *15 credit hours of Digital Arts courses with a grade of "C" or better, or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Prepare a professional resume, cover letter, and portfolio of work samples.

Present yourself successfully as an intern/employee.

Work as a contributing member of your employer's staff.

Understand what it is like to work within your industry as a creative professional.

Acquire new skills, experiences and refine existing skills/knowledge.

Complete required work hours and presentations.

ART 278 - Color Darkroom Practicum

3 credit hours - One and one half hours of lecture and four and one half hours of studio weekly; one term.

Learn to master the color printing process in a traditional darkroom setting. Gain experience shooting, printing and analyzing chromogenic prints. Explore the science and aesthetics of visible light and experiment with alternative color photographic processes. Lab fee \$50. Prereq(s): *ART 121 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Interpret the aesthetic value of color photographs

Analyze the use of color in printed photographs

Analyze hue, saturation, and contrast in printed color photographs

Utilize darkroom equipment for the production of color prints

Communicate ideas through the production of color photographs

Interpret the meaning of color photographs by other artists

ART 280-299 - Special Topics in Art

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Provides students with the opportunity to concentrate on a topic of particular interest. A maximum of eight credit hours earned from special topics courses maybe used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-100.

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze the components that are found in successful figure painting.
- Develop skill and experience by creating a series of projects with the figure and its environment using Figure Painting materials.
- Apply strong use of composition, space, form, color, light and expression to Figure Painting.
- Critically think and communicate visual concepts verbally during critique and in response to material regarding a diverse range of global historic and contemporary painters.
- Build a well-crafted, intentional body of work with a personal voice through the painting medium

Astronomy

AST 112 - Stars and Stellar Systems

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Learn about the universe beyond our solar system. Explore topics including the nature of stars and their evolution, galaxies and quasars, the universe as a whole and the possibility of life elsewhere in the Universe. Lab fee \$10. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Describe the nature of science, including the role of observation and experiment, as well as what distinguishes science from pseudoscience and belief systems.
- Describe the apparent motions and cycles of objects in the night sky and explain how these observations provided the evidence that the solar system is heliocentric and the Earth is not the center of the universe.
- Apply the tools of astronomy, including relevant physical laws, the nature of light, how matter interacts with light, basic optics, and astronomical telescopes and instruments.
- Describe what defines a star, how stars are characterized and classified, and how distances to stars and galaxies are established.
- Describe the physical process by which stars and planetary systems form and by which stars evolve, including key stages of evolution and types of remnants that may be left.
- Describe the large scale structure of the universe and the classification, evolution, and content of galaxies, including the Milky Way Galaxy and our solar system's location within it.
- Discuss cosmology, including our understanding of the age and extent of the universe, the evidence for the Big Bang theory, and factors that affect the evolution and ultimate fate of the universe

AST 114 - The Solar System

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Investigate the structure, dynamics, and major components of the solar system (sun, moon, Earth, other planets and their satellites, comets, asteroids and meteoroids). Examine the origin and likely fate of the Earth, Sun, and the solar system as a whole. Compare our Solar System to other known planetary systems. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Describe the nature of science, including the role of observation and experiment, as well as what distinguishes science from pseudoscience and belief systems.
- Describe the apparent motions and cycles of objects in the night sky and explain how these observations provided the evidence that the solar system is heliocentric and the Earth is not the center of the universe.
- Apply the tools of astronomy, including relevant physical laws, the nature of light, how matter interacts with light, basic optics, and astronomical telescopes and instruments.

Explain the solar nebula theory for the formation of the solar system, as well as supporting evidence, and compare it to the more general picture of star and planetary system formation.

Discuss the Sun as a star, including the source and transportation mechanisms for the Sun's energy, key stages of evolution, and the fate of the solar system as the sun evolves.

Discuss the unique, life-sustaining properties of the Earth, including its internal structure, surface, atmosphere, and geological history, and compare them to properties of other bodies in the solar system.

AST 120 - Life in the Universe

3 credit hours - Three hours of lecture weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Explore the possibility that life exists elsewhere in the Universe. Study what astrobiologists mean by "life" and the nature and origin of life on Earth. Investigate the properties of worlds where life could thrive, how the properties of stars affect the habitability of planets, and the challenges associated with interstellar travel. Discuss the probability of communication with extraterrestrial intelligent life forms, and discuss the social and philosophical consequences of finding life, intelligent or simple, elsewhere in the Universe. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math.* Note: *This course does not satisfy curricular requirements for a laboratory science course.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the nature of science in general and astrobiology in particular, including the role of observation and experiment and what distinguishes science from pseudoscience and belief systems.
- Discuss the historical and physical context for astrobiology, including the nature of light, gravity, stars, planets, our solar system, and the universe, as well as the challenges associated with interstellar travel.
- Discuss the concept of life, including forms of life on Earth, how life originated on Earth, and what characteristics of Earth are essential for the life that exists here.
- Describe the habitable zone for extrasolar planets and how stellar, atmospheric, surface, and subsurface conditions affect habitability for both bodies in the solar system and extrasolar planets.
- Discuss the evidence that may exist for potentially habitable exoplanets and signs of extrasolar life including single-celled life and intelligent life, as well as our ability to detect that evidence.
- Discuss SETI (Search for ExtraTerrestrial Intelligence), the Drake equation, and the Fermi paradox.

AST 280-299 - Special Topics in Astronomy

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Independent study in an advanced area of astronomy. Students must initiate a planned program. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Prereq(s): *28 or more credit hours and permission of department chair.*

Biology

BIO 100 - Introduction to Biology

4 credit hours - Three hours of lecture and three hours laboratory weekly, one term.

This course meets the Biological and Physical Sciences General Education Requirement. Explore the science of biology; learn about the diversity of living organisms and their roles in various environments. Gain an understanding of cellular chemistry and genetics and how molecular biology and biotechnology are capable of changing organisms. Examine how ecosystems function and how global changes are impacting populations and biodiversity. Lab fee \$45. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Note: *Students may not use this course to substitute for BIO 101. Credit is not given for both BIO 100 and BIO 101. This course is for non-science majors only and may not be used as a pre-requisite for any other Biology course. This course may not satisfy requirements for entry into Health Professions related fields.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Describe the process of scientific methodology and be able to critically assess science-related articles in the news.
 Investigate the process of evolution and how it shaped the unity and diversity of present day life forms.
 Identify chemical processes and biochemistry of organisms
 Explore genetics and heredity and how biotechnology affects agriculture and medicine.
 Identify various ecosystems and critically assess how global changes potentially affect biodiversity.
 Experience hands-on experiments related to a variety of discussion topics.

BIO 101 - Foundations of Biology: Molecules and Cells

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Study the basic biological principles common to living organisms and insights into the scientific methods used to determine those principles. Topics include biological molecules, cell structure and metabolism, biological organization, homeostasis, reproduction and development, and heredity. Lab fee \$50. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Note: *Credit is not given for both BIO 101 and BIO 100 or BIO 101 and BIO 102 or BIO 101 and BIO 231.* Location(s) Typically Offered: Arnold Main Campus (MC) and Glen Burnie (GB) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

1. Apply quantitative reasoning skills and the Scientific Method of Investigation, including the use of laboratory skills to experiments, safety, measurement, observation, and interpretation, to improve understanding of the unifying themes of biology.
2. Demonstrate a basic understanding of cells and their components in the areas of: basic chemistry, properties of water, organic molecules and polymers, organelle structure and function, prokaryotic and eukaryotic cell structure.
3. Describe major cellular processes including: membrane function, enzyme function and metabolic pathways, energy utilization in cellular respiration and photosynthesis, cell reproduction through mitosis and meiosis, heredity of genes, DNA replication, and gene expression.

BIO 102 - Biology for the 21st Century

3 credit hours - Three hours weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Learn the basic concepts of biology, their impact on society and their role in developing a personal worldview. Learn how genetics and evolution define life, determine gender, govern inheritance, create diversity and foster new species. Understand the processes used for in vitro fertilization, sex selection, and cloning. Study the applications of molecular biology for genome mapping, forensic science, and production of new domesticated organisms, genetic screening and development of new gene therapies. Recognize how scientific knowledge can be misused to support conflicting views and attitudes. This course does not satisfy a lab science requirement. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Note: *Credit is not given for both BIO 101 and BIO 102.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Describe the process of science and the scientific method as shown by the history of evolution, genetics and the discovery of DNA.
- Characterize the link between the chemical structure of molecules such as proteins and DNA and their function in cellular processes.
- Distinguish among characteristics controlled by biology, the environment and culture.
- Investigate the diversity of life on Earth and the genetic basis of diversity.
- Determine how the numerous patterns of genetic inheritance have led to the current diversity of life on Earth.
- Identify key issues in biotechnology such as the production of genetically engineered foods and the cloning of stem cells for medical research.
- Discuss the role of ethics in science as it relates to topics such as genetic testing, personal medicine and bioterrorism.
- Assess the Human Genome Project results with respect to its implications for our future including issues related to human cloning, racism, and fetal genetic testing.
- Practice the diverse skills necessary to understand and communicate current biological issues by preparing and presenting critiques of current topics in biotechnology and genetics.
- Critically assess media items related to biological concepts for content, accuracy, and bias.
- Identify how organisms interact to form populations.

Identify biotic and abiotic factors in an ecosystem.

BIO 103 - General Botany

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Gain an introduction to members of the plant kingdom and their closest relatives. Learn the unique life strategies of plants that are the basis for their importance to humans and their role in shaping global ecology. Through an examination of plant form and function, students will learn how and why plant life defines the biological potential of both terrestrial and aquatic ecosystems. Lab fee \$50. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.
2. Describe the processes involved in obtaining and using energy in plants.
3. Describe the major processes involved in plant growth and reproduction.
4. Discuss the basics of plant anatomy and physiology, from the cellular level to the organismal level.
5. Discuss the characteristics, similarities and differences between the major plant groups and their closest ancestors.

BIO 104 - Foundations of Biology: Ecology and Evolution

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Investigate the major evolutionary and ecological processes that operate in the natural world. Explore the diversity of life forms on Earth and human impacts on that diversity. Collect, quantify, interpret and present empirical data in order to gain a foundation in the scientific and communication skills used to develop scientific knowledge. Lab fee \$40. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test, or a "B" or better in MAT 005.* Crosslisted:

Crosslisted: *Also offered as BIO 104H. Credit is not given for both BIO 104 and BIO 104H.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the major premises of science as a human endeavor.
2. Explain how evolution through natural selection has led to both small-scale and large scale population changes.
3. Describe the principles of inheritance and explain how they complement evolutionary theory.
4. Describe patterns of biodiversity and explain how humans have impacted that biodiversity.
5. Describe the principal interactions between species and within communities and ecosystems.
6. Design and carry out hypothesis-driven studies of biology.
7. Assess the validity and uncertainty of scientific claims.

BIO 104H - Foundations of Biology: Ecology and Evolution Honors

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This is an Honors course. Investigate the major evolutionary and ecological processes that operate in the natural world. Explore the diversity of life forms on Earth and human impacts on that diversity. Collect, quantify, interpret and present empirical data in order to gain a foundation in the scientific and communication skills used to develop scientific knowledge. Prereq(s): *Eligibility for honors courses, eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test, or a "B" or better in MAT 005.* Crosslisted: *Also offered as BIO 104. Credit is not given for both BIO 104 and BIO 104H.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the major premises of science as a human endeavor.
2. Explain how evolution through natural selection has led to both small-scale and large scale population changes.
3. Describe the principles of inheritance and explain how they complement evolutionary theory.
4. Describe patterns of biodiversity and explain how humans have impacted that biodiversity.
5. Describe the principal interactions between species and within communities and ecosystems.

6. Design and carry out hypothesis-driven studies of biology.
7. Assess the validity and uncertainty of scientific claims.

BIO 105 - General Zoology

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. An introduction to members of the animal kingdom and their closest relatives. Study how animals have evolved adaptations that allow representatives to occupy all terrestrial and aquatic ecosystems. Students will learn how vertebrate and invertebrate animals are classified and how particular adaptive strategies are important for their survival through an examination of animal form and physiology. Lab fee \$70. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math.* Note: *Typically offered at MC; fall and spring terms.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Demonstrate knowledge of the characteristics of major phyla in the animal kingdom.
- Demonstrate competency in the scientific analysis of animal classification, structure, function, and main biological processes.
- Demonstrate knowledge and understanding of the interrelationships between animals and humans based on habitats, ecological roles, and direct impact on humans.
- Demonstrate application of the scientific method to develop and test hypotheses
- Demonstrate laboratory skills in safety, measurement, observation, and interpretation.

BIO 107 - Environmental Science

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Investigate major issues in contemporary environmental science with special emphasis on scientific reasoning and the skills needed to resolve contemporary problems. Perform field and laboratory exercises focused on ecosystem dynamics, habitat assessment, pollution, resource management and environmental restoration. Students must attend occasional scheduled field trips. Lab fee \$20. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math.* Note: *Credit is not given for both BIO 107 and BIO 108.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

1. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.
2. Explain key ecosystem processes, including energy flow, water and nutrient cycling, trophic interactions and succession.
3. Explain major pollutant sources to air, land and water.
4. Describe the factors influencing the growth of populations (including humans) and how populations change through time.
5. Describe the framework of environmental legislation and policy in the United States.

BIO 108 - Ecosystems and the Environment

3 credit hours - Three hours of lecture weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Explore the natural functioning of Earth's major systems: the biosphere, atmosphere, hydrosphere and lithosphere and examine how human activity influences these natural systems. Examine the interrelationships among science, technology, politics and history that govern past environmental policy, and consider how these disciplines will help shape the environment of the future. Does not satisfy a lab science requirement. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math.* Note: *Credit is not given for both BIO 107 and BIO 108.*

Course Outcomes

Describe basic science (chemistry, physics, and biology) as it applies to contemporary environmental issues.

- Trace the biogeochemical cycles of nitrogen, phosphate, and carbon.
- Discuss the importance of human impacts on the nitrogen and phosphorus cycles in terms of water quality, particularly in the Chesapeake Bay.
- Discuss the importance of human impacts on the carbon cycle in terms of possible climate change.
- Identify problems associated with the introduction of non-native species.
- Discuss the problems to the environment and society resulting from a decreasing diversity of species.
- Detail the reasons for decreasing biodiversity.

Compare and contrast different population curves in terms of biotic potential and environmental resistance and relate this to human populations.

List the values of natural ecosystems to human societies.

Compare and contrast different methods of meeting society's energy needs in terms of economic issues, sustainability, and environmental impacts.

Evaluate methods of waste disposal, considering environmental impact as well as social and economic impacts.

Design methods to maximize use of renewable forms of energy in real life situations.

Define and give examples of sustainable solutions in agriculture.

List the effects that growing human populations have on resource availability and ecosystems.

Describe basic scientific principles common to living organisms and ecosystems.

Diagram how energy flows through ecosystems in a typical food web and discuss the implications the laws of thermodynamics have on this flow.

Discuss why the physical and chemical properties of water make it so essential to life on Earth.

Identify the different types of interspecies relationships common to living organisms.

Discuss how constant geographic and meteorological change results in adaptations of organisms and ecosystems.

List the properties of soil required by plants.

Trace the insect life cycle.

Relate the laws of thermodynamics to energy production and use.

Describe how political, economic, and social issues, both past and present, influence the contemporary environment.

Relate how sustainable solutions must take into account economic feasibility as well as ecological viability.

Describe the reasons for increasing human populations and methods to stop excessive growth.

List examples of how changing public perceptions can change environmental policy.

Discuss the environmental impacts of affluence.

Identify effects that both public and private sectors have on conservation and the environment.

Assess personal environmental impact in terms of water use, energy consumption, and waste production.

Interpret environmental sampling data.

Review literature and critically analyze data presented.

Analyze raw environmental data and generate graphs and diagrams to illustrate trends.

Apply the methodology of scientific investigation.

Analyze graphs to determine if hypotheses have been supported in experiments performed.

Develop a testable hypothesis from an observation.

Design an experiment to test a hypothesis.

List the steps of the scientific method.

Critically assess experiments to determine if they meet the criterion of sound science.

BIO 112 - Garden Management

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

An introduction to the applications and techniques for growing plants in residential, public and commercial environments. Study the selection, care, culture, propagation and maintenance of trees, shrubs, flowers, edible plants and grasses. Learn how to incorporate groups of plants to create home landscapes, herb, vegetable, water, public and thematic gardens, seasonal plant displays and landscape features for people management. Lab fee \$30. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math.*

BIO 113 - Sustainable Horticulture

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Identify native and cultivated plants used in horticulture, landscaping and restoration. Apply the principles of sustainability to the propagation, growth and use of these plants in horticultural settings. Topics include plant form and function, soil fertility, propagation, biotechnology and integrated pest management. Lab fee \$30. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.
2. Explain concepts in plant anatomy, physiology, reproduction, and horticultural ecology.
3. Explain how principles of sustainability are applied to horticultural systems.
4. Demonstrate how a range of plants can be propagated from seed, vegetative material or micropropagation.
5. Demonstrate how sustainability concepts can be applied in landscape design.

BIO 116 - Introduction to Landscaping

3 credit hours - Three hours of lecture weekly; one term.

Learn the theory and general principles of landscaping with emphasis on the application of these principles to public and residential areas. Discover how sites are evaluated with respect to function, design criteria, environmental conditions and plant selection. Learn the techniques of design and drafting that are used to develop original concepts into working landscape plans. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

BIO 121 - Indoor Gardening

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

An introduction to flowering and foliage plants used for indoor decorating. Study the methods for plant selection, propagation, care and culture. Learn how plants are used to help create the interior landscape of residential, commercial and public buildings. Lab fee \$30. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math or permission of the department chair.*

BIO 122 - Fundamentals of Ecology Travel Study 1

4 credit hours - Three hours lecture weekly; 2 weeks travel study lab

This course meets the Biological and Physical Sciences General Education Requirement. Travel to unique ecosystems on planet earth to study the evolution, structure and function of ecosystems. Examine the basic geology, hydrology, climate, organism dynamics, and human cultures that affect example ecosystems. Apply the scientific method to principles of ecology, evolution, conservation, and human impacts. Travel fee. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005* Note: *This course requires pre- and post- travel meetings in addition to the instruction given during the travel experience. Students must sign up for the corresponding travel section and pay all travel fees separately. Students traveling to international destinations are required to have a valid passport 90 days prior to departure and valid 90 days following the return date.*

Course Outcomes

1. Apply the scientific method to test ecological principles using observation, measurement, identification, and data analysis.
2. Describe the process and basic mechanisms of evolution.
3. Describe the fundamental principles of ecology at the levels of population, community, and ecosystem.
4. Explain the relationship of humans to ecosystems including benefits received from ecosystems and impacts made on ecosystems.
5. Compare and contrast geology, hydrology, climate, organisms, and human impacts of field sites visited during the travel course in terms of historical background and future prospects for these ecosystems.

BIO 123 - Fundamentals of Ecology Travel Study 2

3 credit hours - Two hours lecture weekly; 2 weeks travel study lab

This course meets the Biological and Physical Sciences General Education Requirement. Make comparisons to ecosystems studied in BIO 122 by applying the scientific method to principles of ecology, evolution, conservation, and human impacts. Explore contrasting ecosystems through travel to study the evolution, structure, and function of additional ecosystems. Examine geology, hydrology, climate, organism dynamics, and human cultures that affect example ecosystems. Travel fee. Prereq(s): *BIO 122 or permission of department chair.* Note: *This course requires pre- and post- travel meetings in addition to the instruction given during the travel experience. Students must sign up for the corresponding travel section and pay all travel fees separately. Students traveling to international destinations are required to have a valid passport 90 days prior to departure and valid 90 days following the return date.*

Course Outcomes

1. Compare and contrast ecosystem parameters from different travel locations (visited during BIO122 and BIO 123) through the application of the scientific method to test ecological principles using observation, measurement, identification, and data analysis.
2. Compare the results of evolutionary processes in the different locations.
3. Explain how the fundamental principles of ecology at the levels of population, community, and ecosystem have resulted in the

unique species sets found in the two travel locations.

4. Identify common effects of human impacts on the ecosystems in the two travel locations.
5. Compare and contrast geology, hydrology, climate, organisms, and human impacts of the ecosystems visited during both trips of the travel course in terms of historical background and future prospects for these ecosystems.

BIO 130 - Drones Sensing the World Around Us - Designs by Nature and Technology

3 credit hours - Three hours lecture weekly; one term

This course meets the Biological and Physical Sciences General Education Requirement. Learn the techniques used to explore and study the world around us. Emphasis is placed on the how biological systems sense the environment and how drones and other autonomous systems mimic these systems to gain situational awareness. Learn the practical, technical and legal uses of drone technology and how remote sensing improves our understanding of the environment. Study the data collected by remote surveillance technologies, for habitat assessment, ecosystem inventories, the impacts of weather and evaluation of weather phenomena. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math.* Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Infrequently

Course Outcomes

- Observe the natural environment through the use of natural and current technologies.
- Measure ecological change and evaluate effects on ecological systems.
- Demonstrate the ability to work as a team to collect and analyze environmental data.
- Interpret the scientific data collected by using a variety of tools to create a data base.
- Explain how data collection improved your ability understand impacts on the environment.
- Collaborate as a team using technology to improve your understanding of the environment.

BIO 135 - Principles of Nutrition

3 credit hours - Three hours weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. This course meets the Wellness Requirement. Learn the digestion, absorption and physiological function of nutrients in the body. Emphasis is placed on normal nutrition and the relationship between nutrients and chronic disease. Nutrition needs of the healthy person through stages of the life span are included. This course does not satisfy a lab science requirement. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Note: *Credit is not given for both BIO 135 and BIO 136.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

1. Accurately interpret consumer and scientific information.
2. Assess dietary intake and adjust diet to optimize health and reproduction.
3. Describe the interactions between nutrients and human physiological processes in health and disease.

BIO 136 - Principles of Nutrition and Laboratory

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. This course meets the Wellness Requirement. Focus on nutrients, including their digestion, absorption and physiological function in the body. Emphasis is placed on normal nutrition and the relationship between nutrients and chronic disease. Nutrient needs of the healthy person through stages of the life span are included. Includes a laboratory experience. Lab fee \$30. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Note: *Credit is not given for both BIO 135 and BIO 136.*

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Accurately interpret consumer and scientific information.
2. Assess dietary intake and adjust diet to optimize health and reproduction.
3. Describe the interactions between nutrients and human physiological processes in health and disease.

4. Demonstrate a basic understanding of laboratory safety, standard methods of measurement, quantitative analysis of chemical solutions, pH, and isolation of nutrients from food components.

BIO 137 - Weight Management: Utilizing Healthy Approaches to Diet and Physical Activity

1 credit hour - One hour of lecture weekly; one term.

Introduces students to the concepts of energy balance, healthful eating patterns and physical fitness for healthy living. The course examines many of the biological and environmental theories associated with weight management and reviews current research in this area. Emphasis is also placed on physical fitness compatible with the achievement and maintenance of a healthy body weight. Popular diet programs will be reviewed and evaluated with regard to weight management and overall health impact. Crosslisted: *Also offered as HEA 137; credit is not given for both BIO 137 and HEA 137.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Winter and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Discuss the genetic and biological influences on body weight in humans.
2. Identify the means of assessing weight, body fat and physical fitness.
3. Identify strategies for overcoming many of the environmental triggers for excess body fat.
4. Understand the basic aspects of physical fitness.
5. Identify aspects of a healthy diet plan that can allow for appropriate weight loss.
6. Carefully critique popular literature related to physical fitness and weight loss.

BIO 138 - Nutrition for Fitness and Sport

1 credit hour - One hour of lecture weekly; one term.

Introduces the student to current dietary guidelines appropriate for a healthy and physically active lifestyle. Explores the nutritional needs of physically active individuals, including recreational as well as competitive athletes. The role of each nutrient is reviewed, with emphasis on their utilization during exercise and recovery. Dietary modifications to optimize performance during different types of physical activity also will be discussed. A brief review of scientific data regarding ergogenic aids also will be presented.

Crosslisted: *Also offered as HEA 138; credit is not given for both BIO 138 and HEA 138.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe current guidelines for dietary intake and fitness recommendations.
2. Differentiate between functions of energy nutrients versus functions of micronutrients.
3. Calculate energy and nutrient needs of individuals across a range of fitness and activity.
4. Create a food plan appropriate for age and calorie needs based on current dietary guidelines.
5. Explain the importance of proper hydration during exercise and recovery and detail strategies to achieve optimal hydration.
6. Identify and critically analyze the effectiveness of selected ergogenic aids on the performance of athletes.

BIO 152 - Biology of Aging

3 credit hours - Three hours of lecture weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Examine the study of normal aging, the theories that exist to explain aging and the changes that occur in the anatomy and physiology of the human body as it ages. Discuss normal aging processes and disease states. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Introduce the terminology associated with the study of aging.
- Define aging in terms of its physical, societal, economic and emotional affects.
- Briefly review the organ systems of the body.
- Describe the changes in each organ system related to the aging process.
- Integrate the material covered to critique claims made by "anti-aging products on the market".
- Learn the basics of aging in a collegial, participatory atmosphere.

BIO 201 - Plant Taxonomy

4 credit hours - Two hours of lecture and four hours of laboratory weekly; one term.

Studies the identification, naming and classification of native vascular plants. Master the applications of plant taxonomy for the identification of individual plant species and the designation of various habitat types like forests, meadows, wetlands and bogs. Learn the features of plants that are used for plant identification through the use of manuals, keys, plant collections and herbaria. May require one daylong Saturday field trip. Lab fee \$25. Prereq(s): *BIO 103 or BIO 113 or permission of department chair; eligibility for ENG 101/ENG 101A and eligibility for any general education math.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

1. Use appropriate discipline-specific terminology.
2. Apply appropriate methods of plant identification.
3. Describe the defining characteristics of plant families found in Maryland.
4. Discuss the principles of plant systematics and taxonomy, including nomenclature, classification and evolutionary trends.

BIO 207 - Plant Propagation

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Learn an introduction to the principles and practices used in the propagation of native and cultivated plants. Study how the techniques of seed propagation, cuttings, grafting, separation, division and micropropagation are used to produce plants for home use and commercial applications. Learn how plants are improved through plant breeding and genetic modification. Lab fee \$30. Prereq(s): *BIO 103 or BIO 113 or permission of department chair; eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.
2. Explain concepts in plant anatomy and physiology.
3. Demonstrate techniques in sexual and asexual plant reproduction.
4. Demonstrate techniques in plant tissue culture and micropropagation.

BIO 210 - Ecological Principles and Environmental Assessment

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Examine the interrelationships between terrestrial and aquatic systems, focusing on field-based investigations. Apply environmental assessment techniques to determine physical, chemical and biological characteristics of a watershed and the factors affecting water quality. Use Geological Information Systems (GIS) as well as digital meters and Global Positioning Systems (GPS) in the field for data collection. Learn about the factors affecting ecosystem structure and function, including biogeochemical cycles, symbiotic relationships, and the impact of alien species. Investigate the unique characteristics and functions of different ecosystems, including a salt marsh, rocky shore, riparian buffer and coral reef. Lab fee \$40. Prereq(s): *Any one of the following: BIO 101 or BIO 102 or BIO 103 or BIO 105 or BIO 107 or BIO 108 or permission of department chair. Eligibility for ENG 101/ENG 101A and eligibility for any general education math.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

1. Collect, analyze, and interpret information based on scientific reasoning and discipline-specific concepts.
2. Describe the key biotic and abiotic components of Maryland ecosystems, including coastal plain forest, freshwater stream, freshwater wetland, and salt marsh.
3. Explain key ecosystem processes, including energy flow, water and nutrient cycling, trophic interactions and succession.
4. Apply appropriate methods of field sampling, data analysis and laboratory analysis.
5. Communicate scientific conclusions based on data collection and analysis.

BIO 211 - Estuarine Biology

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Investigate the biology of the Chesapeake Bay and its tributaries. Study the interrelationships between the physical environment and the biodiversity observed in the many kinds of aquatic habitats found within an estuarine watershed. Learn how to sample, monitor and identify the keystone species of these habitats through field collections and laboratory evaluation. Requires one Saturday research

cruise. Lab fee \$60. Prereq(s): *BIO 101 or BIO 103 or BIO 107 or permission of department chair; eligibility for ENG 101/ENG 101A and eligibility for any general education math.*

BIO 212 – Genetics

3 credit hours - Three hours lecture weekly; one term.

Study the mechanism of heredity moving from the discoveries of Mendel through molecular genetics. Apply studies in viral, prokaryotic and eukaryotic model systems to the understanding of human inheritance and molecular genetics. Prereq(s): *BIO 101 or permission of department chair and eligibility for ENG 101/ENG 101A and any general education math.* Note: *Students should check with their intended transfer institution or an AACC Academic and Transfer Advisor before enrolling. Credit is not given for both BIO 212 and BIO 220 or BIO 212 and BIO 285 Special Topics in Biology - Genetics.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- 1-Describe the structure, regulation and function of genetic material and predict the outcome of changes to that material in prokaryotic and eukaryotic cells.
- 2 -Describe the process of genetic transmission and predict offspring from sexual and asexual reproduction.
- 3 - Identify and calculate genetic linkage and use appropriate statistical analysis to assess predictions made.
- 4 -Generate and interpret graphs to display experimental data, and use the graphs to assess data.
- 5- Utilize public databases to locate information appropriate to an assigned topic, and use provided information to critique current scientific topics.

BIO 214 – Ecology

3 credit hours - Three hours weekly; one term.

Discover the unique ecology of Maryland's diverse ecosystems. Examine the geographic history, ecology and environmental attributes of the barrier islands, coastal bays, coastal plain, Piedmont region, Appalachian Mountains and the Chesapeake Bay. This course does not satisfy a lab science requirement. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Explain fundamental concepts in ecology.
2. Explain the fundamentals of soil and wetlands ecology.
3. Explain the major ecological and anthropogenic forces that impact the Chesapeake Bay.
4. Apply fundamental ecological concepts to evaluate human impacts on Maryland's barrier islands, coastal bays, coastal plain, piedmont plateau, and Appalachian Mountains.

BIO 215 - Restoration Ecology

3 credit hours - Three hours weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Learn basic techniques used to repair, restore and create ecosystems. Emphasis is placed on the diverse ecosystems of Maryland. Investigate how water quality is improved through established forest and meadow habitats, tidal and non-tidal wetlands, underwater grass meadows, and dune systems as well as through the construction of rain gardens and vegetated storm water treatment systems. This course does not satisfy a lab science requirement. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Crosslisted: *Also offered as BIO 215H; credit is not given for both BIO 215 and BIO 215H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and describe the morphology of abiotic and trophic levels in the U.S. ecosystems.
- Analyze the structural and functional roles of the major plant structures.
- Describe the role of site hydrology for devising restoration strategies.
- Identify and explain the factors that contribute to successful restoration protocols.

Differentiate between techniques to restore tidal, non-tidal, subaquatic grasses and manage wildlife and fishery populations.

BIO 215H - Restoration Ecology – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Biological and Physical Sciences General Education Requirement. Learn basic techniques used to repair, restore and create ecosystems. Emphasis is placed on the diverse ecosystems of Maryland. Investigate how water quality is improved through established forest and meadow habitats, tidal and non-tidal wetlands, underwater grass meadows, and dune systems as well as through the construction of rain gardens and vegetated storm water treatment systems. This course does not satisfy a lab science requirement. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005.* Crosslisted: *Also offered as BIO 215; credit is not given for both BIO 215H and BIO 215.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and describe the morphology of abiotic and trophic levels in the U.S. ecosystems.
- Analyze the structural and functional roles of the major plant structures.
- Describe the role of site hydrology for devising restoration strategies.
- Identify and explain the factors that contribute to successful restoration protocols.
- Differentiate between techniques to restore tidal, non-tidal, subaquatic grasses and manage wildlife and fishery populations.

BIO 220 - Genetics with Laboratory

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Formerly BIO 220 – Genetics This course meets the Biological and Physical Sciences General Education Requirement. Study the mechanism of heredity, moving from the discoveries of Mendel through molecular genetics. Apply studies in viral, prokaryotic and eukaryotic model systems to the understanding of human inheritance and molecular genetics. Perform techniques used in research and biotechnology settings. Lab fee \$70. Prereq(s): *BIO 101 or permission of department chair and eligibility for ENG 101/ENG 101A and any general education math.* Note: *Credit is not given for both BIO 220 and BIO 212 or BIO 220 and BIO 285 Special Topics in Biology - Genetics.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

- Describe the structure, regulation, and function of genetic material and predict the outcome of changes to that material in prokaryotic and eukaryotic cells.
- Describe the process of genetic transmission and predict offspring from sexual and asexual reproduction.
- Identify and calculate genetic linkage and use appropriate statistical analysis to assess predictions made.
- Formulate a hypothesis based on observation, gather data applicable to test the hypothesis, and demonstrate qualitative and quantitative methods to evaluate the hypothesis.
- Generate and interpret graphs to display experimental data, and use the graphs to assess data.
- Utilize public databases to locate information appropriate to an assigned topic, and use provided information to critique current scientific topics.

BIO 221 - Molecular Biotechniques

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Investigate the theory and application of molecular biology as they apply to research, medicine, agriculture, bioremediation and criminology. Use extensive hands-on procedures in the integrated lecture/lab to reinforce the theory behind cloning, genetic engineering and forensic DNA science. Learn concepts that govern the use of molecular techniques and the applicable laboratory skills. Lab fee \$70. Prereq(s): *BIO 101 or permission of department chair and eligibility for ENG 101/ENG 101A and any general education math.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

- Perform calculations and procedures to make solutions of specific concentrations.
- Generate a standard curve and use it to determine the concentration of an unknown solution.

Describe the use of the Global Harmonized System to determine the hazards associated with various reagents, and describe the use of safety equipment and procedures associated with a molecular biology laboratory.

Use aseptic technique in various procedures to culture microorganisms.

Describe and perform procedures to isolate pure genomic and plasmid DNA from bacterial cultures.

Conduct all steps in the polymerase chain reaction including primer design and preparation, amplification, and agarose gel electrophoresis.

Conduct DNA analysis including restriction endonuclease analysis, determination of concentration, DNA sequencing reaction preparation and analysis.

Utilize NCBI database resources to conduct literature searches, obtain DNA and protein sequence information, perform sequence comparisons and design primers.

Explain the theory of Southern, Northern and Western hybridization techniques.

Troubleshoot laboratory experiments.

BIO 223 - General Microbiology

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Study of the fundamental principles of microbiology, the diversity of microorganisms and the relation of microorganisms to disease and industry. Laboratory work includes the examination of media, culture methods, microscope examinations and identifications, the control of microorganisms by physical and chemical means and some quantitative techniques. Lab fee \$50. Prereq(s): *BIO 101 or BIO 103 or BIO 231 or BIO 233; eligibility for ENG 101/ENG 101A and any general education math.* Crosslisted: *Also offered as BIO 223H; credit is not given for both BIO 223 and BIO 223H.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe how microbes (eukaryotes, prokaryotes, viruses) are ubiquitous and are able to adapt to diverse microenvironments due to their nutritional, genetic and metabolic processes and their interactions with other organisms including humans.
2. Explain how microbes are essential to life including their roles in environmental and public health issues and how humans use microbes and their products.
3. Describe how microbes have unique cell structures that can be targets for antibiotics, immunity and viral infections and confer critical capabilities like pathogenicity and biofilm formation.
4. Apply the principles of immunology and physical and chemical control of microbial growth to the process of the disease prevention and treatment.
5. Demonstrate appropriate laboratory skills in safely handling, growing, staining, observing (microscopic and macroscopic), identifying and quantifying microbes.

BIO 223H - General Microbiology – Honors

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This is an Honors course. This course meets the Biological and Physical Sciences General Education Requirement. Study of the fundamental principles of microbiology, the diversity of microorganisms and the relation of microorganisms to disease and industry. Laboratory work includes the examination of media, culture methods, microscope examinations and identifications, the control of microorganisms by physical and chemical means and some quantitative techniques. Lab fee \$50. Prereq(s): *BIO 101 or BIO 103 or BIO 231 or BIO 233. Eligibility for Honors courses and any general education math; eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as BIO 223; credit is not given for both BIO 223 and BIO 223H.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe how microbes (eukaryotes, prokaryotes, viruses) are ubiquitous and are able to adapt to diverse microenvironments due to their nutritional, genetic and metabolic processes and their interactions with other organisms including humans.
2. Explain how microbes are essential to life including their roles in environmental and public health issues and how humans use microbes and their products.
3. Describe how microbes have unique cell structures that can be targets for antibiotics, immunity and viral infections and confer critical capabilities like pathogenicity and biofilm formation.
4. Apply the principles of immunology and physical and chemical control of microbial growth to the process of the disease prevention

and treatment.

5. Demonstrate appropriate laboratory skills in safely handling, growing, staining, observing (microscopic and macroscopic), identifying and quantifying microbes.

BIO 230 - Structure and Function of the Human Body

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Learn the anatomy and physiology of the human body. Surveys major systems of the body, cells and tissues. Considers clinical disorders of major systems. Lab fee \$20.

Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005. Note: Credit is not given for both BIO 230 and any of the following: BIO 231, BIO 232, BIO 233 or BIO 234. Students enrolled in the EMT-P, Pharmacy Technician, Medical Coding and Massage Therapy certificate programs and Personal Trainer letter of recognition programs should consult their program advisor for math eligibility.*

Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Name and describe the location of all body cavities.
2. Integrate the structure and function of the human body at the cellular, tissue, organ and organ system level of complexity.
3. Name and describe relative body terms.
4. Name and describe the structure and function of the cellular organelles.
5. Name and describe the structure, function and give a body location for the subcategories of the four mayor tissue types.
6. Identify the bones of the axial and appendicular skeleton.
7. Identify major skeletal muscles.
8. Identify major blood elements.
9. Identify major blood vessels.
10. Trace blood through the circulation of the heart.
11. Identify and describe the functions of the organs of each organ system.
12. Name and define clinical disorders of each of the body systems.
13. Apply lessons learned in class to everyday situations encountered at work or in professional and/or personal life.

BIO 231 - Human Biology 1

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Learn the biologically significant inorganic and organic molecules and their relationship to human anatomy and physiology, the structure of cells and tissues, cellular physiology, the fundamentals of inheritance and the anatomy and physiology of the integumentary, skeletal, muscular, and endocrine systems. Lab fee \$20. Prereq(s): *Eligibility for ENG 101/ENG 101A and either eligibility for any general education math or a score of 27 or better on the Arithmetic Placement Test or a B or better in MAT 005. Note: This course is designed for AACC's RN program and may not be appropriate for transfer. Students should check with their intended transfer institution or an AACC Academic and Transfer Advisor before enrolling. Credit is not given for (1) both BIO 101 and BIO 231 or (2) both BIO 230 and BIO 231 or (3) both sequences BIO 231 - BIO 232 and BIO 233 - BIO 234. Students enrolled in the Massage Therapy certificate program should consult their program advisor for math eligibility.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Understand and apply appropriate terminology as it relates to human anatomical and physiological processes.
2. Demonstrate an understanding of microscopic and macroscopic human anatomical structures as represented on models and images.
3. Analyze human physiological processes at various levels of biological organization using charts, diagrams, graphs, and tables.
4. Evaluate scientific information, analyze data, and solve problems.
5. Apply knowledge of relationships among human organ systems.

BIO 232 - Human Biology 2

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Study the anatomy and physiology of the nervous, circulatory, lymphatic, immunity, respiratory, digestion, urinary, reproductive systems and meiosis. Additional topics include

body fluid composition, acid-base balance, electrolytes and early human development. Lab fee \$20. Prereq(s): *BIO 231 and eligibility for ENG 101/ENG 101A*. Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Understand and apply appropriate terminology as it relates to human anatomical and physiological processes.
- Demonstrate an understanding of microscopic and macroscopic human anatomical structures as represented on models and images.
- Analyze human physiological processes at various levels of biological organization using charts, diagrams, graphs, and tables.
- Evaluate scientific information, analyze data, and solve problems.
5. Apply knowledge of relationships among human organ systems.

BIO 233 - Anatomy and Physiology 1

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. A study of biological chemistry, cell structure and function, tissues, and the histology, gross anatomy and physiology of the integumentary, skeletal, muscular and nervous systems. Lab fee \$20. Prereq(s): *BIO 101; eligibility for ENG 101/ENG 101A and eligibility for any general education math*. Note: *Credit is not given for (1) both BIO 230 and BIO 233 or (2) both sequences BIO 231 - BIO 232 and BIO 233-BIO 234*. Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

1. Understand and apply appropriate terminology as it relates to human anatomical and physiological processes.
2. Demonstrate an understanding of microscopic and macroscopic human anatomical structures as represented on models and images.
3. Analyze human physiological processes at various levels of biological organization using charts, diagrams, graphs, and tables.
4. Evaluate scientific information and analyze data, and solve problems.
5. Apply knowledge of relationships among human organ systems.

BIO 234 - Anatomy and Physiology 2

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. A study of the histology, gross anatomy and physiology of the circulatory, lymphatic, respiratory, digestive, endocrine, urinary and reproductive systems and early human development. Lab fee \$20. Prereq(s): *BIO 233 and eligibility for ENG 101/ENG 101A*. Note: *Credit is not given for (1) both BIO 101 and BIO 231 or (2) both BIO 230 and BIO 231 or (3) both sequences BIO 231 - BIO 232 and BIO 233 - BIO 234*. Students enrolled in the Pharmacy Technician and Massage Therapy certificate programs should consult their program advisor for math eligibility. Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

1. Understand and apply appropriate terminology as it relates to human anatomical and physiological processes.
2. Demonstrate an understanding of microscopic and macroscopic human anatomical structures as represented on models and images.
3. Analyze human physiological processes at various levels of biological organization using charts, diagrams, graphs, and tables.
4. Evaluate scientific information and analyze data, and solve problems.
5. Apply knowledge of relationships among human organ systems.

BIO 275 - Biology Practicum

1-4 credit hours -

Focus on varied biological topics not ordinarily emphasized in basic survey courses. Practicum courses may not include a laboratory component, unless the practicum exceeds three credit hours. A maximum of eight credit hours earned from practicum courses may be used to satisfy degree requirements. Because practicum courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee varies. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math*.

Course Outcomes

Outline a plan to develop a base of knowledge in the subject under scrutiny utilizing all methods (reading resources, training in protocols, experimentation, field data collection, etc.) necessary to fully master the topic

To function as an integral part of a team including the student, instructor(s), librarians, and possibly other mentors
Acquaint self with the body of work that has been performed in the area.
Develop a comprehensive reading list giving relevant background material in the topic
Define the scope of the topic
Define time required to achieve goals
Generate a statement detailing the course proposal

Master all relevant information available on the topic

Use the appropriate terminology associated with the field.
Discuss the information gained in an appropriate medium (report, paper, tests, etc.)
Critically assess reading material to determine if they meet the criterion of sound science.

Generate, organize, interpret and apply information derived from laboratory experiences, while applying the methodology of scientific investigation (if applicable)

Develop a testable hypothesis from an observation.
Design an experiment to test a hypothesis.
Analyze graphs to determine if hypotheses have been supported in experiments performed.
Critically assess experiments to determine if they meet the criterion of sound science.

BIO 280-299 - Special Topics in Biology

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Focus on varied biological topics not ordinarily emphasized in basic survey courses. Topics may not include a laboratory, unless they earn four credits. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee varies. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math.*

Business Administration

BPA 105 - Exploring the Future

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Investigate the future in a changing world. Using tools and perspectives across fields of study and cultures, students expand foresight and build the future. Acquire an appreciation for the complexity of our global society and its diversity. Crosslisted: *Also offered as SOC 105; credit is not given for BPA 105 and SOC 105.*

Course Outcomes

Identify approaches to and paradigms for the study of the future.
Describe a process of visioning for and planning for the future.
Demonstrate methods of investigating the future.
Measure and identify the impact of social change and social trends.

BPA 106 - Introduction to Project Management

3 credit hours - Three hours weekly; one term.

Formerly BPA 116 - Introduction to Project Management Study the basics of project management. Explain the concepts behind successful project management and investigate the key elements of the project management framework. This course addresses the core material of the CompTIA Project+ exam objectives. Prereq(s): *CTA 100 or CTP 103 and eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as CTA 106; credit is not given for both BPA 106 and also CTA 106.*

Course Outcomes

Ability to describe what project management is and the elements of the project management framework.
Describe what project management is and discuss key elements of the project management framework.
Ability to communicate the growing need for project management, especially for technology projects.
Explain the growing need for better project management, especially for technology projects

Ability to communicate and model the four general phases in the project life cycle.

Explain the four general phases in the project life cycle.

Ability to demonstrate an understanding of the systems view of project management and its interrelationships with information technology projects.

Demonstrate an understanding of the systems view of project management and its interrelationships with information technology projects.

Ability to communicate the five process groups of project management and how they are related.

Describe the five process groups of project management and how they are related.

Ability to communicate the importance of project integration management.

Demonstrate an understanding of the importance of project integration management.

Ability to develop a project plan using project management software and productivity software.

Develop a project plan using project management software.

Ability to communicate the importance of top management commitment to project management and its critical impact on a project's success

Explain why top management commitment to project management is critical for a project's success

BPA 111 - Introduction to Business

3 credit hours - Three hours weekly; one term.

Explore the way that business is related to, and interacts with, individuals, groups, and institutions in the 21st century. Learn the terminology and concepts of the functional areas of business, setting the foundation for interpreting and analyzing the legal, social, and ethical issues facing business (both the institution and its members) today. Examine global awareness and cultural diversity throughout the course. Prepare for a career in business and/or a business career in the arts, sciences, and technologies. Crosslisted: *Also offered as BPA 111H credit not given for both BPA 111 and BPA 111H. Note: Eligibility for ENG 101/ENG 101A recommended.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the role of government and how laws impact businesses.

Describe the role marketing plays in a free-enterprise system.

Identify the responsibilities of management in a contemporary business.

Describe the increasing importance of the global market.

Identify and evaluate financial resources and systems.

BPA 111H - Introduction to Business—Honors

3 credit hours - Three hours weekly; one term.

This is an Honors course. Explore the way that business is related to, and interacts with, individuals, groups, and institutions in the 21st century. Learn the terminology and concepts of the functional areas of business, setting the foundation for interpreting and analyzing the legal, social, and ethical issues facing business (both the institution and its members) today. Examine global awareness and cultural diversity throughout the course. Prepare for a career in business and/or a business career in the arts, sciences, and technologies. Prereq(s): *Eligibility for Honors courses.* Crosslisted: *Also offered as BPA 111; credit not given for both BPA 111H and BPA 111. Note: Eligibility for ENG 101/ENG 101A recommended.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the role of government and how laws impact businesses.

Describe the role marketing plays in a free-enterprise system.

Identify the responsibilities of management in a contemporary business.

Describe the increasing importance of the global market.

Identify and evaluate financial resources and systems.

BPA 113 - Personal Finance

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Examine the concepts and practical application of managing personal finances, including budgeting, credit, housing, insurance, investments and retirement planning. Crosslisted: *Also offered as BPA 113H; credit not given for both BPA 113 and BPA 113H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply personal finance principles to make sound financial decisions related to managing resources, credit, careers, risk, investment and savings.
- Identify and analyze current economic trends to make sound financial decisions relating to managing resources, credit, careers, risk, investment and savings.
- Apply consumer rights and responsibilities to make prudent and ethical decisions regarding personal consumption.
- Examine the effects of widespread financial behavioral trends on social phenomena such as recessions, banking crises or stock market fluctuations.

BPA 113H - Personal Finance—Honors

3 credit hours - Three hours weekly; one term.

This is an Honors course. Examine the concepts and practical application of managing personal finances, including budgeting, credit, housing, insurance, investments and retirement planning. Prereq(s): *Eligibility for Honors courses.* Crosslisted: *Also offered as BPA 113; credit not given for both BPA 113H and BPA 113.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply personal finance principles to make sound financial decisions related to managing resources, credit, careers, risk, investment and savings.
- Identify and analyze current economic trends to make sound financial decisions relating to managing resources, credit, careers, risk, investment and savings.
- Apply consumer rights and responsibilities to make prudent and ethical decisions regarding personal consumption.
- Examine the effects of widespread financial behavioral trends on social phenomena such as recessions, banking crises or stock market fluctuations.

BPA 119 - Global Business

3 credit hours - Three hours weekly; one term.

An examination of international trade and multinational business in the expanding global economy. Explore foundational competencies specific to cultural diversities and social norms, varied legal and regulatory environments, and divergent business practices and expectations. Survey the economic, financial and cultural environments in which international business operates. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate an understanding of business in different cultures and the impact of geography on business practices.
2. Analyze the relationship of global business to various constructs including governments, political structures, economic systems, and legal frameworks.
3. Explain how managers deal with the different forces affecting international business, including product differentiation, strategy and operations.
4. Discuss the role of regulatory agencies and operations on international trade and the global monetary system.
5. Examine and evaluate the structure of multinational corporations.

BPA 120 - Small Business Management

3 credit hours - Three hours weekly; one term.

Examine the principles and practices involved in planning and operating a small business. Topics include operations and logistics, human resources management, marketing and sales, financing your business, small business accounting, legal responsibilities, and risk

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AACC 2024-2025 Print Catalog

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management. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe how to manage a small business including human resources, production, operations, and supply chain.
- Explain how to conduct sales and marketing for a small business.
- Summarize the accounting cycle, bookkeeping process, and basic financial statements.
- Explain how small businesses use debt and equity financing.
- Identify legal and regulatory responsibilities of small business.

BPA 125 - Principles of Marketing

3 credit hours - Three hours weekly; one term.

Examine the components of an effective marketing strategy. Understand target markets and how to conduct market research. Explore pricing strategies and other tools designed to inform and persuade consumers. Determine what products or services to provide and effective ways to distribute products and services. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Create a marketing plan.
- Select and segment a target market.
- Evaluate options for products, services, pricing and distribution.
- Examine the importance of branding and how branding decisions are made.
- Identify an effective promotional mix, including advertising, publicity and personal selling.

BPA 126 - Advertising and Sales Promotion

3 credit hours - Three hours weekly; one term.

Think critically and use metrics to evaluate the appropriate mix of promotional activities to effectively market your product or service. Create commercials, social media posts, online ads, and sales material to support an advertising campaign. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Define the relationship of advertising in the marketing mix, show correlation of marketing data to media selection, and show how the communications process accelerates selling.
- Make logical decisions in using advertising to reach sales objectives.
- Produce creative ideas relative to individual target markets.
- Prepare an ad based on the strengths and weaknesses of available media.
- Recognize media options, and other advertising options, in building a program for any business.
- Build a coordinated advertising program.
- Evaluate promotional efforts.

BPA 127 - Digital Marketing and Analytics

3 credit hours - Three hours weekly; one term.

Investigate strategic marketing analytic concepts. Apply data-driven decision making to integrated marketing communication solutions and content creation practices. Evaluate user experience design to support business objectives to coordinate and/or enhance a digital campaign. Discuss the varied managerial philosophies to do so. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

Recommend marketing strategies and tactics for an organization to achieve specific goals.
Create and examine data collection research to establish data-driven decision-making insights.
Analyze, evaluate and create digital content for enhancing market reach, resonance and relativity.
Practice developing and maintaining story telling principles for a comprehensive digital marketing plan that incorporates integrated marketing communications to support business objectives.
Prepare an evaluation plan using analytics to determine a campaign's success.

BPA 129 - Business Travel Studies

3 credit hours - Three hours weekly; one term.

Travel domestically or abroad with an AACC Business Professor(s) to global business centers for an on-site study. Acquire the knowledge and skills required to succeed in the dynamic field of global business. Gain an understanding of the intricacies of travel, cross-cultural communication, and global business operations, essential for success in today's business environment. Note: *This course requires pre- and post- travel meetings in addition to the instruction given during the travel experience. Students must sign up for the corresponding travel section and pay all travel fees separately. Students traveling to international destinations are required to have a valid passport 90 days prior to departure and valid 90 days following the return date.* Location(s) Typically Offered: Arnold Main Campus (MC)

Course Outcomes

Upon successful completion of this course, students will be able to:

Describe the fundamentals of global business, including market entry strategies, large-scale marketing, and trade regulations.
Compare branding and advertising in global markets to domestic methods.
Apply cross-cultural communication skills to navigate cultural or regional differences and build effective business relationships.
Analyze case studies and real world scenarios to apply theoretical knowledge to practical situations.

BPA 132 - Sales and Sales Training

3 credit hours - Three hours weekly; one term.

Gain the knowledge, skills, and techniques necessary to excel in the field of sales as retail sales personnel, wholesaler representatives, or industrial salespersons. Study topics to include buying psychologies, product knowledge, demonstration techniques, handling resistance, and closing the sale. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon completion of this course, the student will be able to:

Identify and explain the key stages of the sales process, from prospecting and lead generation to closing deals.
Discuss the importance of ethical behavior in sales and the consequences of unethical practices.
Demonstrate active listening skills and persuasive communication techniques to understand customer needs and overcome objections.
Apply a variety of sales techniques, including consultative selling and solution-based selling, to real-world scenarios.
Identify common objections in sales and develop strategies to overcome them.

BPA 134 - Retail Management

3 credit hours - Three hours weekly; one term.

Explore the contemporary world of retail from a managerial perspective. Learn how to describe and analyze the way retailing works, specifically the key activities and relationships. Study topics to include buyer behavior, retail strategy, and the management of people, operations and merchandise. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Demonstrate an understanding of how retailers develop a retail mix to build a sustainable competitive advantage.
Analyze the financial implications of strategic retail decisions.
Explain how the integration of merchandise management and supply chain strategies lead to excellent customer service.
Demonstrate an understanding of decisions retailers make to satisfy customer and employee needs in a rapidly changing and competitive environment.
Explain how retailers use marketing communications to build a brand image and customer loyalty.

BPA 135 - Customer Service

3 credit hours - Three hours weekly; one term.

Examine excellence in customer service as the competitive edge in today's business environment. Design a comprehensive customer service strategy that positions a workplace to deliver exceptional customer service. Develop external communications to handle complaints and other service failures. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Use the basic terminology in customer service today.

- Define customer service and identify its key concepts.
- Define the legislation and regulatory agencies that impact customer service.
- Identify the basics of a customer service plan.
- Discuss various customer service strategies used by large retailers.
- Define the basics of a telephone-based customer service response plan.
- Describe the impact of effective customer service on consumers.

2. Discuss case studies related to successful customer service plans in use today.

- Discuss the challenges of setting up an effective customer service policy for a company.
- Discuss some of the mistakes that other companies have made with their customer service policies.

3. Describe the role that customer service programs play in a company's success.

- Identify the various types of customer service strategies.
- Discuss the pros and cons of the strategies.
- Discuss how consumer satisfaction impacts the overall mission of an organization.

BPA 136 – Keyboarding

1 credit hour - credit-by-examination

Designed to assess keyboarding skills using keyboarding software and Microsoft Office or Google Docs. Focuses on proper formatting techniques to prepare documents such as agendas, memoranda, email, letters, and reports using tools such as tables, bulleted and numbered lists, fonts, columns, tabs, alignment, indents, and spelling and grammar check.

Course Outcomes

- Demonstrate use of the alphanumeric keys on a 10-key pad by the touch system at a minimum speed of 30 wpm and 100% accuracy.
- Use word processing commands to perform the basic file management activities of creating, saving, deleting, printing, and closing documents.
- Prepare error-free documents, including memoranda, email, agendas, letters and reports.
- Use columns, tables, bulleted lists, number/dollar formatting, and varied fonts in a document.

BPA 138 - Business and Professional Ethics

3 credit hours - Three hours weekly; one term.

Explore the moral landscape of today's business environment and discuss ethical issues and dilemmas of professionals in business, public administration, accounting and other professions. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe common ethical issues that arise in various business contexts.
- Demonstrate an understanding of the professional environments within which ethical dilemmas occur.
- Explain ethical obligations between employers and employees.
- Describe corporate social responsibility and its relevance to ethical business practices.
- Apply moral reasoning and analytical skills for resolving ethical challenges in professional environments.

BPA 140 - Fundamentals of Healthcare Management

3 credit hours - Three hours weekly; one term.

Explore the essential principles and practices required to excel in the dynamic and complex field of healthcare management. Learn the primary elements relating to the administration of healthcare in hospitals, clinics, nursing homes, medical and dental offices, and other health-related institutions. Examine the implications of federal and state legislation on the healthcare system. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the evolution of the U.S. healthcare industry.
- Define appropriate management strategy and structure of various healthcare organizations.
- Define the importance of strategic and tactical planning for healthcare organizations.
- Identify the basic systems of healthcare financing.
- Discuss the current trends and prospects for providing quality healthcare in the United States.

BPA 141 - Office Procedures and Technology

3 credit hours - Three hours weekly; one term.

Study current office procedures, duties, and responsibilities applicable to an administrative professional in an office environment. Topics include: records management, meeting and travel arrangements, effective communication, organizational structure, and professional image. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the professional role and responsibilities of the administrative professional in the 21st century.
- Use effective written and verbal communication skills.
- Evaluate, demonstrate, and use common office procedures and technologies.
- Develop workplace problem solving, organizational, interpersonal, and teamwork skills.
- Employ office financial procedures.

BPA 142 - Principles of Management

3 credit hours - Three hours weekly; one term.

Explore the managerial functions of planning, leading, organizing and controlling, and the management process. Study, through application, topics to include environmental influences, organization design, motivation, ethics, communication and leadership. Crosslisted: *Also offered as BPA 142H; credit not given for both BPA 142 and BPA 142H.* Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Examine the major functions, roles and skills required by management in today's dynamic business environment.
- List and describe the different types of management planning, as well as the levels of management involved in each, and the various management planning tools and techniques.
- Describe management's role in the organization of a business.
- Explain how management functions within an organization to provide the necessary leadership required to ensure that goals and objectives are obtained.
- Explain the importance of the controlling function and be able to connect the use of effective control mechanisms in the management process to meeting management objectives.

BPA 142H - Principles of Management—Honors

3 credit hours - Three hours weekly; one term.

This is an Honors course. Explore the managerial functions of planning, leading, organizing and controlling, and the management process. Study, through application, topics to include environmental influences, organization design, motivation, ethics, communication and leadership. Prereq(s): *Eligibility for Honors courses.* Crosslisted: *Also offered as BPA 142; credit not given for both BPA 142H and BPA 142.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically

Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Examine the major functions, roles and skills required by management in today's dynamic business environment.
- List and describe the different types of management planning, as well as the levels of management involved in each, and the various management planning tools and techniques.
- Describe management's role in the organization of a business.
- Explain how management functions within an organization to provide the necessary leadership required to ensure that goals and objectives are obtained.
- Explain the importance of the controlling function and be able to connect the use of effective control mechanisms in the management process to meeting management objectives.

BPA 145 – Leadership

3 credit hours - Three hours weekly; one term.

Study leadership as a management style for effectively implementing change and working toward goals. Focus on an overview of leadership styles and skills, creating a vision for an organization, developing effective leadership structures, analyzing factors influencing leadership and developing the manager's leadership goals. Crosslisted: *Also offered as BPA 145H; credit not given for both BPA 145 and BPA 145H.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Differentiate between leaders and managers.
2. Explain the responsibilities and skills required to be an effective leader.
3. Identify their personal leadership style and philosophy.
4. Discuss the role of a leader in initiating change and helping others to adjust to change through coaching and motivation.
5. Describe the role a leader can play in managing conflict.
6. Explain the importance of strategic and culturally diverse leadership.

BPA 145H - Leadership—Honors

3 credit hours - Three hours weekly; one term.

This is an Honors course. Study leadership as a management style for effectively implementing change and working toward goals. Focus on an overview of leadership styles and skills, creating a vision for an organization, developing effective leadership structures, analyzing factors influencing leadership and developing the manager's leadership goals. Prereq(s): *Eligibility for Honors courses.* Crosslisted: *Also offered as BPA 145; credit not given for both BPA 145H and BPA 145.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Differentiate between leaders and managers.
2. Explain the responsibilities and skills required to be an effective leader.
3. Identify their personal leadership style and philosophy.
4. Discuss the role of a leader in initiating change and helping others to adjust to change through coaching and motivation.
5. Describe the role a leader can play in managing conflict.
6. Explain the importance of strategic and culturally diverse leadership.

BPA 156 - E-Commerce

3 credit hours - Three hours weekly; one term.

Explore introductory concepts related to doing business online. Study topics such as selecting an e-commerce platform, establishing secure electronic payment methods, marketing strategies for online businesses, procurement, supply chain management and ethical, legal and regulatory concerns. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon the successful completion of this course, students will be able to:

- Describe the various e-commerce business models.
- Identify the advantages and disadvantages of various e-commerce platforms and payment systems.
- Demonstrate an understanding of e-commerce supply chain management.
- Determine the ethical, legal, and regulatory concerns for an e-commerce business model.
- Develop an e-commerce marketing strategy.

BPA 162 - Business Communications

3 credit hours - Three hours weekly; one term.

Learn written and oral communication skills needed in a professional environment. Focus on written reports and proposals, workplace communication, the job search, and oral presentations designed to inform or persuade. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Note: *Credit will not be given for BPA 162 and also ESI 162.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon completion of this course, the student will be able to:

- Adapt written and oral business communication to fit the audience and purpose.
- Utilize the writing process to develop effective written business communication.
- Create and deliver business presentations that inform or persuade.
- Use relevant technology and reliable sources to enhance written and oral business communication.

BPA 171 - Principles of Supervision

3 credit hours - Three hours weekly; one term.

Explore the role and responsibilities of a successful supervisor in today's diverse workplace. Topics include planning, motivation, decision-making, conflict resolution, communicating effectively, discipline and counseling, and selecting, training and appraising employees. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the basic skills needed of a supervisor.
- Examine the challenges facing the modern supervisor.
- Explain the importance of planning, delegating and decision making.
- Explain theories of motivation, methods of conflict resolution and discipline techniques.
- Describe the supervisor's role in the employee selection and development process.

BPA 172 - Human Resource Management

3 credit hours - Three hours weekly; one term.

Gain an overview of the human resource management profession. Study the roles, responsibilities, relationships, functions, and processes of human resource management from a systems perspective. Discuss specialty areas of human resources to include recruitment and selection, compensation and benefits, employee/labor relations, performance management, and training and development. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain human resource management from a systemic, strategic perspective and identify the criteria for high-quality human resource management.
- Apply the core tenets of the recruitment and selection process.
- Design human resource programs and systems (compensation, motivation, training, performance management) which would have a positive effect on both employee and organizational performance.
- Analyze the impact of external organizations (unions, government, etc.) on human resource policies and practices.

BPA 173 - Managing and Valuing Workforce Diversity

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Focus on how to change corporate culture and develop an understanding of diversity. Review and develop action plans for valuing diversity, examine case studies and review recent literature from periodicals. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify diversity related definitions and key legislation.
- Assess approaches to diversity management and exemplary leaders and organizations.
- Explore the impact of social identity, cross-cultural communication and cultural awareness in the workplace.
- Identify and examine the challenges and needs of under-represented groups in the workplace.
- Develop tools to understand and manage workplace diversity.

BPA 174 - Women and Business

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Examine critical issues, attitudes and practices which influence the successful integration of women into business leadership roles. Through readings, case studies, and special projects, explore the nature of gender-related topics and their impact on leadership and business. Study relevant topics including power and authority, legal issues, communication, sexual harassment, traditional gender roles, stereotypes, and time and stress management. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the historical context and cultural impact of women in leadership roles.
2. Examine the personal and organizational success factors for the successful integration of women in leadership roles.
3. Explain the legal issues and risks incurred by corporations which fail to respond effectively to gender issues in the workplace.
4. Apply critical analysis and problem-solving skills to minimize the risks and optimize the opportunities for integration of women leaders in corporate life.

BPA 190 - Organizational Behavior

3 credit hours - Three hours weekly; one term.

Examine many of the basic principles of human behavior that effective managers use when managing individuals and groups in a variety of organizations. Topics include communications, motivation, group dynamics, leadership, power, organizational design and development, and organizational culture. Conceptual frameworks, case studies, and skill-oriented activities are applied to each topic and intended to help students acquire the skills that managers need to improve organizational relationships and performance. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- List and explain basic organizational behavior principles and analyze how these principles influence behavior in the workplace.
- Examine individual behavior in the workplace as influenced by personality, values, perception, and motivation.
- Describe elements of group behavior including group dynamics, communication, leadership, power and politics, and conflict and negotiation.
- Demonstrate how application of organizational behavior (OB) frameworks, tools, and concepts can enhance individual, group, and organizational effectiveness.
- Reflect on personal beliefs, assumptions and behaviors with respect to how individuals, groups and organizations act in order to expand your approaches and increase your own organizational effectiveness.

BPA 195 - Entrepreneurial and Career Opportunities in the Cannabis Industry

3 credit hours - Three hours weekly; one term.

Formerly BPA 227--Entrepreneurial Opportunity in Expanding Markets: Cannabis Legalization Examine the entrepreneurial and career opportunities that are created as markets change and expand; specifically, the issues involving cannabis, currently legal for

medical and/or adult use in a number of states and the District of Columbia. Explore business through the lens of the emerging cannabis industry as well as the businesses that arise as a result of it. Examine the racially biased history, economic and tax impact, the legal and regulatory environment and financing challenges for medical and adult use-based businesses using the newly emerging market as a starting point for inquiry. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Appraise the history of cannabis in America.
2. Examine the economic impact of the legalization of cannabis.
3. Interpret the Maryland regulations regarding medical cannabis.
4. Identify direct, indirect and tertiary businesses that are created in the cannabis supply chain.
5. Examine strategies to address the racial inequity and social injustice in the cannabis industry.

BPA 200 - Foundations of Accounting

3 credit hours - Three hours weekly; one term.

Learn principles of financial and managerial accounting from a user approach. Develop basic skills in understanding and interpreting financial statements. Apply financial and managerial accounting concepts to managing businesses. Note: *This course is for non-business majors and will not substitute for BPA 201 or BPA 202. Credit will not be given for BPA 200 and also BPA 201 or BPA 202.*

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon conclusion of this course, the student will be able to:

1. Describe the basic elements for the framework of a financial accounting system.
2. Prepare a set of basic financial statements using the accrual method of accounting for a service and merchandising organization.
3. Compare and contrast different inventory costing methods.
4. Identify proper accounting procedures for receivables, long-term assets, liabilities and equity.
5. Analyze a set of financial statements using various analysis methods.
6. Describe the difference between financial and managerial accounting.
7. Identify various costs for managerial accounting purposes.
8. Solve managerial accounting problems related to cost volume profit analysis and budgeting.
9. Use a computerized accounting system to set up a basic accounting system.

BPA 201 - Financial Accounting

3 credit hours - Three hours weekly; one term.

Formerly BPA 211 - Principles of Accounting 1 Learn principles of financial accounting for the corporate entity. Study accrual-based accounting and the accounting cycle. Analyze and record financial transactions; prepare financial statements; and learn to account for receivables, inventories, fixed assets, liabilities and shareholders' equity. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for any general education math course or permission of department chair.* Note: *Credit is not given for BPA 201 and also BPA 200, BPA 201H, or BPA 211.* Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply appropriate accounting terminology, principles, and framework for service and merchandising operations.
- Solve accounting problems related to service and merchandising operations.
- Prepare financial statements for service and merchandising operations.
- Analyze financial information using ratio analysis.

BPA 201H - Financial Accounting—Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. Learn principles of financial accounting for the corporate entity. Study accrual-based accounting and the accounting cycle. Analyze and record financial transactions; prepare financial statements; and learn to account for receivables, inventories, fixed assets, liabilities and shareholders' equity. Prereq(s): *Eligibility for Honors courses. Eligibility for ENG 101/ENG*

101A and eligibility for any general education math course or permission of department chair. Note: Credit is not given for BPA 201H and also BPA 201 or BPA 200 or BPA 211. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply appropriate accounting terminology, principles, and framework for service and merchandising operations.
- Solve accounting problems related to service and merchandising operations.
- Prepare financial statements for service and merchandising operations.
- Analyze financial information using ratio analysis.

BPA 202 - Managerial Accounting

3 credit hours - Three hours weekly; one term.

Explore principles of managerial accounting. Study methods of cost accounting, cost volume profit analysis, capital budgeting, decision-making analysis and budgeting methods. Prepare cash flow statements and perform financial statement analysis. Prereq(s): BPA 201 or permission of department chair. Note: Credit will not be given for both BPA 202 and BPA 202H or BPA 202 and BPA 212. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply appropriate accounting terminology, principles, and framework for manufacturing operations.
- Solve accounting problems related to various managerial and cost accounting concepts.
- Prepare detailed financial statements, including the statement of cash flows.
- Create and analyze budgets and company performance using various measurement criteria.

BPA 202H - Managerial Accounting—Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. Explore principles of managerial accounting. Study methods of cost accounting, cost volume profit analysis, capital budgeting, decision-making analysis and budgeting methods. Prepare cash flow statements and perform financial statement analysis. Prereq(s): Eligibility for Honors courses and BPA 201 or permission of department chair. Note: Credit will not be given for both BPA 202H and BPA 202 or BPA 202H and BPA 212. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply appropriate accounting terminology, principles, and framework for manufacturing operations.
- Solve accounting problems related to various managerial and cost accounting concepts.
- Prepare detailed financial statements, including the statement of cash flows.
- Create and analyze budgets and company performance using various measurement criteria.

BPA 214 - Professional Bookkeeper Keystone

3 credit hours - Three hours weekly; one term.

Develop a deeper and broader knowledge of basic accounting fundamentals. Study theory and procedures related to the legal forms of business. Learn accounting treatment for error correction, accounting adjustments, payroll, depreciation, inventory, internal controls and fraud prevention. Examine professional responsibilities and ethics. Prepare for the Professional Bookkeeper Certification Exam. Prereq(s): BPA 201 (formerly BPA 211) or permission of the department chair. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain the basic accounting functions for a service or merchandising entity.

- Prepare transactions for an accounting system for a service or merchandising entity.
3. Describe internal controls and fraud protection as related to accounting.
 4. Demonstrate an understanding of professional responsibilities and ethics for the accounting profession.

BPA 217 - Small Business Accounting

3 credit hours - Three hours weekly; one term.

Use Quickbooks® software (cloud-based) for the study of computerized accounting systems with emphasis on the application of accounting theory and practice. Complete projects for both service and merchandising-based entities, including creating a company, accounting for balance sheet accounts, adjusting accounts, reconciling bank accounts and closing the accounting cycle. Utilize a personal computer for accessing, updating, working with, saving, and sharing electronic files. Prereq(s): *Eligibility for ENG 101/ENG 101A or permission of department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Demonstrate knowledge of file management processes for a computerized accounting system.
- Demonstrate proficiency in analyzing source documents and the subsequent recording of accounting transactions.
- Create and produce financial reports for service and merchandising-based businesses.
- Create and produce payroll reports and perform related payroll functions using source documents.

BPA 235 - Introduction to Transportation and Logistics

3 credit hours - Three hours weekly; one term.

Explore principles, concepts, and practices that underpin the efficient movement of goods and people within the global economy. Gain an understanding of the complex systems that drive transportation by studying topics such as the legal and regulatory environment, costing and pricing, major transportation options, managing transportation partnerships, and technologies and issues that will shape the future of supply chain management. Location(s) Typically Offered: Off Campus (OF), Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and discuss various modes of transportation and their respective roles in global supply chains.
- Recognize the principles of logistics and warehouse management and explain their significance in optimizing the movement of goods.
- Explain the fundamentals of international trade and its impact on logistics.
- Discuss the latest technological advancements in transportation and logistics.
- Explain current issues in the transportation industry including, but not limited to security issues and policy considerations.

BPA 236 - Introduction to Airport and Seaport Operations

3 credit hours - Three hours weekly; one term.

Examine the structure, organization, and operation of airports and seaports, including current issues and challenges. Explore the intricacies involved in managing and operating these critical transportation hubs and the effects of government regulatory agencies. Develop the skills necessary to excel in this dynamic industry through a combination of theoretical knowledge and practical applications. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the fundamental principles of airport and seaport operations.
- Relate the regulatory frameworks governing these transportation hubs.
- Explain the responsibilities of managing terminal facilities and infrastructure.
- Demonstrate knowledge of safety, security, and emergency protocols.
- Recognize the importance of environmental sustainability.
- Research the contemporary emerging technologies and industry trends.

BPA 237 - Supply Chain Management

3 credit hours - Three hours weekly; one term.

Study supply chain management, covering key concepts, strategies, and practical tools to effectively manage the flow of goods, information, and finances across the supply chain. Examine supply sources, distribution, production planning, information systems, customer service, inventory management, warehouse management, supply chain relationships, and challenges facing managers today. Gain insights into optimizing supply chain operations and driving organizational success through a combination of theory, case studies and hands-on exercises. Location(s) Typically Offered: Off Campus (OF), Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain supply chain management concepts, functions, and strategies.
- Examine the importance of technology and data analytics in supply chain decision-making.
- Evaluate supply chain performance and implement improvements.
- Identify and explain the political, economic, and social trends that impact supply chain management both locally, nationally, and internationally.
- Describe current issues and recognize future challenges in supply chain management.
- Identify the unique supply chain management environment in the local area/region.

BPA 238 - Domestic and International Freight Operations

3 credit hours - Three hours weekly; one term.

Examine current issues and best practices in freight logistics and operations. Explore the intricacies of managing the movement of goods within a single country (domestic) as well as across international borders, fostering a deep understanding of the supply chain and global trade processes. Study topics to include transportation providers, regulation and policy, carrier strategies, costing and pricing, information systems, transportation management, and the negotiation and bidding process. Prereq(s): *BPA 235 or permission of department chair*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the principles of freight logistics, including key concepts, terminology, and industry trends.
- Recognize the latest technological advancements in the freight industry, such as automated tracking systems.
- Identify various transportation modes, including road, rail, air, and sea, and explain their strengths, weaknesses, and appropriate applications.
- Evaluate strategies to optimize transportation budgets and the freight operations process for domestic and international shipments.
- Identify and mitigate potential risks in freight operations, such as cargo damage, theft, delays, and compliance issues.
- Explain the political and economic trends that impact domestic and international freight operations, including customs procedures, trade agreements, and safety regulations.

BPA 239 - Procurement and Materials Management

3 credit hours - Three hours weekly; one term.

Survey the organization and operations of the procurement and warehousing functions in today's modern businesses. Study procurement processes of sourcing, vendor evaluation and selection, negotiation, contract management, and purchasing ethics. Explore warehouse operations involving shipping, receiving, materials handling, inventory control, and warehouse safety. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Examine the purchasing process including policies, procedures, and their use for competitive advantage.

- Identify various procedures for procuring goods and services.
- Analyze how various procedures may be used as a competitive advantage.
- Identify the process for sourcing materials, including supplier evaluation, selection, and quality management.

Describe the means to source materials globally.

Identify the process for evaluating suppliers for product and service sourcing.

Explain the process for selecting quality products.

Explain the sourcing process including cost management, negotiating, contract management, laws and ethics, and metrics and analysis.

Explain how cost management impacts the materials sourcing process.

Identify the negotiation process in product sourcing.

Explain how contract management supports a legal operation in product and service sourcing.

Explain the methods for metrics analysis in procurement.

Examine the functions of warehouse operations including order entry and processing, receiving, and inspection and quality control.

Identify the major functions of warehouse operations.

Identify the processes of order entry, receiving, stocking, and storage.

Describe the importance of inspection and quality control in warehouse operations.

Identify the outbound warehouse functions including order selection and replenishment, checking and packing, and staging and shipping.

Identify the processes associated with outbound warehouse shipments including order selection, staging and shipping.

Describe proper packing and product selection techniques for outbound shipments.

Analyze order metrics to support proper inventory replenishment.

Explain how inventory control is part of the warehousing process.

Identify processes of inventory control as it relates to warehouse operations.

Describe the importance of effective inventory control measures.

Identify safety and security requirements as it relates to warehouse operations.

Explain the importance of safety and security requirements in a warehouse environment.

Identify warehouse safety procedures and OSHA considerations for warehouse safety.

Describe safe materials storage practices including pallet safety, racking, and mezzanine safety.

Identify hazardous materials processes used to secure a safe environment.

BPA 240 - Logistics Technologies

3 credit hours - Three hours weekly; one term.

Survey the requirements for technology usage in today's transportation and logistics operations. Identify hardware and software solutions that are used to support information management and decision making processes in transportation, warehousing and logistics. Study hardware solutions, software solutions and the link between these solutions and transportation operations. Prereq(s): BPA 235.

Course Outcomes

Upon successful completion of this course, students will be able to:

Examine the foundations of transportation and logistics based technologies.

Identify the role of technology in transportation and logistics.

Explain how technologies work to deliver operational results.

Identify the five clusters of intelligent freight technologies, including asset tracking, onboard status monitoring, gateway facilitation, freight status information, and network status information.

Identify the major challenges and considerations for creating transportation technology based solutions.

Identify barriers to the acceptance of new technologies.

Discuss cost factors in technology implementation.

Discuss legal implications to new technology implementation.

Explain the role of technology throughout history and the impact of technology solutions in today's transportation environment.

Identify major milestones of technology in transportation throughout history.

Discuss the impact of today's major freight transportation solutions to current business models and freight management solutions.

Identify specific hardware and software solutions used in managing freight based transportation operations.

Identify major software solutions in freight management.
Identify major hardware solutions in freight management.
Discuss the role of implementing hardware and software solutions in freight planning and management.
Explain the benefits and costs of implementing technology based solutions in transportation management.

Identify the principle reasons for businesses to implement intelligent freight technologies.
Identify barriers to the acceptance of new technologies.
Discuss the differences between private sector, public sector and freight network benefits of technology use.
Examine the importance of using technology to create a competitive advantage with transportation operations.

Explain how technologies in transportation have improved the efficiency, reliability, and security of freight transportation.
Discuss how return on investment (ROI) is used in deciding the use of freight technologies.
Explain how technology is used to improve reliability and service.

BPA 241 - Intermediate Accounting 1

3 credit hours - Three hours weekly; one term.

Focus on the comprehensive study of accounting principles, theory and practice as they relate to financial statements. Examine income measurement and its effect on the valuation of assets and equity, accounting for current assets, long-term assets, current liabilities and long-term liabilities, and analysis and interpretation of financial statements. Prereq(s): *BPA 202*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Demonstrate proficiency in the application of accounting terminology, principles, and framework to business organizations.
Solve complex accounting problems related to service and merchandising operations.
Prepare detailed financial statements, including required footnotes and disclosures, in accordance with Generally Accepted Accounting Principles (GAAP).
Analyze and interpret financial statements.

BPA 242 - Intermediate Accounting 2

3 credit hours - Three hours weekly; one term.

Focus on the comprehensive study of accounting principles, theory and practice as they relate to financial statements. Analyze the accounting for stockholders' equity, revenue recognition and accounting changes, accounting for taxes, pensions and leases, preparation of cash flow statements, and analysis and interpretation of financial statements. Prereq(s): *BPA 202*. Note: *Students are encouraged to take BPA 241 prior to registering for this course.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Solve complex accounting problems related to topics covered in course.
Prepare basic written research on select accounting topics in course.
Demonstrate knowledge of appropriate accounting terminology, principles and framework for Intermediate Accounting 2 topics.

BPA 245 - Advanced Accounting

3 credit hours - Three hours weekly; one term.

Study the theory and application of the equity method of accounting for investments, business consolidations, variable interest entities, foreign currency transactions, advanced partnership accounting and basic governmental accounting. Prereq(s): *BPA 241 or BPA 242*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Identify investments that require the equity method and apply appropriate accounting principles.
2. Analyze situations in which consolidated financial statements must be prepared.
3. Solve accounting problems related to advanced partnership accounting.
4. Apply appropriate accounting treatment to miscellaneous advanced accounting topics and transactions.
5. Develop and apply foundational framework for governmental and nonprofit accounting.

BPA 246 - Business Operations and Logistics

3 credit hours - Three hours weekly; one term.

Formerly BPA 246/ESI 246 - Entrepreneurship: Small Business Operations and Logistics Develop skills and knowledge required of business managers for the practical application of operations and logistics concepts. Examine processes and practices to streamline business operations, enhance efficiency, and optimize logistics to achieve sustainable growth. Gain strategies to improve the overall performance of a business and customer satisfaction. Note: *Students are encouraged to take BPA 111 before enrolling in this course.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Examine the significance of operations and logistics in the overall business strategy and how they contribute to achieving organizational goals.
- Appraise inventory control techniques, demand forecasting, and inventory optimization to ensure a balanced supply chain.
- Compare methodologies such as Lean and Six Sigma to identify and eliminate inefficiencies in business processes.
- Identify transportation modes, routing, and distribution network design to ensure products reach customers on time and in good condition.
- Recognize the growing importance of sustainable practices and corporate social responsibility (CSR) in business operations and logistics.
- Demonstrate strong communication and collaboration skills essential for coordinating various stakeholders in the supply chain.

BPA 255 - Accounting Information Systems

3 credit hours - Three hours weekly; one term.

Survey accounting information systems (AIS) concepts and explore the following topics: transactional processing concepts and core AIS applications; control frameworks used to secure AIS applications and processes and strategies for implementing or upgrading AIS applications. Satisfy the requirements of the new CPA evolution model and/or gain additional knowledge in the area of the development of appropriate accounting systems. Prereq(s): *BPA 241 and either CTA 100 or its equivalent, or permission of the department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain the role of accountants as business analysts.
- Develop data modeling and implementation skills.
- Evaluate internal control systems.
- Apply business rules to implement controls and mitigate information systems risks.
- Develop data analytics skills through the use of Microsoft Excel and Tableau.

BPA 256 - Financial Management

3 credit hours - Three hours weekly; one term.

Study the basic principles of finance, including working capital management, long-term financing, risk analysis, financial statement analysis, capital budgeting and capital structure. Prereq(s): *BPA 202.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply financial management terminology and principles.
- Demonstrate the ability to read, analyze, and communicate financial statement information.

Solve complex problems related to time value of money, capital financing, budgeting, cash flow management, and optimal asset and liability management.

Apply financial statement information to relevant short and long-term decision making processes for business entities.

BPA 261 - Cost Accounting

3 credit hours - Three hours weekly; one term.

Examine basic principles of cost accounting, including accounting for manufacturing expenses, application of costs to operations and products, preparation of statements, analysis of cost information for administrative and control purposes, and specific order and process cost systems. Prereq(s): *BPA 202*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Differentiate between, and correctly apply, various costing methods in a manufacturing environment.
2. Organize, analyze, and present cost accounting data.
3. Analyze cost behavior, cost estimation, cost management, and cost allocation.
4. Solve accounting problems related to various cost accounting scenarios.
5. Develop and assess financial information through the planning and budgeting process.
6. Utilize time value of money concepts and applicable costing methods to make business-related decisions.

BPA 262 - Tax Accounting

3 credit hours - Three hours weekly; one term.

Study federal income tax law as it applies to individuals and to many aspects of business. Research and apply the law, not primarily by preparing income tax forms, but by analyzing situations and solving problems. Prereq(s): *BPA 202 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Investigate the Federal Tax law as it applies to individual taxpayers.
2. Examine the basic tools for tax research.
3. Analyze and solve basic tax problems by using basic tax research tools.
4. Identify and differentiate between different types of gross income, deductions, expenses, and losses.
5. Examine acceptable tax depreciation methods and solve problems relating to depreciation.

BPA 263 – Auditing

3 credit hours - Three hours weekly; one term.

Study the principles and practices of auditing, focusing on the duties and responsibilities of auditors in establishing procedures for conducting audits and verification of financial statements. Prepare audit working papers and reports and examine problems associated with auditing computerized accounting systems. Prereq(s): *BPA 241 and BPA 242*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Define generally accepted auditing standards.
- Summarize the components of an audit report.
- Demonstrate an understanding of the theory and methodology of auditing and auditing quality control standards.
- Demonstrate an understanding of an entity's internal controls design, implementation, and operating effectiveness.
- Explain the auditor's professional responsibilities.

BPA 264 - Advanced Tax Accounting

3 credit hours - Three hours weekly; one term.

Study federal tax law for property transactions, corporations, partnerships, estates and trusts as it impacts the entity and its owners. Examine concepts, then apply those concepts through the completion of situational problems, not through the preparation of tax forms.

Prereq(s): BPA 262. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Apply the federal tax law as it applies to property transactions.
2. Analyze and apply the federal tax law as it applies to partnerships, corporations, and trusts.
3. Solve accounting problems related to federal taxation of partnerships, corporations, and trusts.
4. Develop and apply appropriate tax planning and avoidance strategies for individuals and entities.
5. Apply tax research methods to complex tax situations.

BPA 275 - Internship in Business 1

3 credit hours - 15 hours work weekly

A course designed to combine practical work experience with academic learning for students majoring in business or entrepreneurial studies. Objectives are set by the supervising employer, the student and the faculty member. Prereq(s): *Permission of instructor or department chair.* Note: *Students must have identified or acquired an internship prior to enrolling in the course. Credit will not be given for BPA 275 and also ESI 275.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon completion of this course, the student will be able to:

- Explore career alternatives prior to graduation or transfer.
- Integrate theory and practice.
- Develop work habits and attitudes necessary for job success.

BPA 276 - Internship in Business 2

3 credit hours - 15 hours work weekly.

A continuation of BPA 275, the course offers supervised experience in business and industry. Prereq(s): BPA 275. Note: *Enrollment in Internship courses requires that students hold an appropriate internship placement in order to receive course credit. Please consult with the Coordinator for Internships prior to registering unless otherwise specified by the department chair or director.* Location(s) Typically Offered: Independent Study (IS) Term(s) Typically Offered: Infrequently

BPA 277 - Business Strategies

3 credit hours - Three hours weekly; one term.

Explore and enhance experiences working in the business environment by connecting practical applications with classroom learning. Focus on personal business skills, business operational understanding and workplace engagement. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Course Outcomes

Explain the Business and Working Environment through current knowledge and on the job training.

- Describe personal working environments.
- Analyze the different working environments that exist.

Demonstrate knowledge of personal business characteristics through personal reflection.

- Describe personal characteristics used in the business world.
- Identify personal career goals.
- Identify the concept of the work/life balance and analyze the results of a personal work/life audit.

Demonstrate knowledge of the business operational environment.

- Identify a business philosophy.
- Describe different work environments and how they support business success.
- Identify the environment for a successful retail operation.
- Describe effective customer service skills used in the business environment.

Demonstrate knowledge of human relations in the business operational environment.

- Describe how motivation supports effective business environments.
- Identify how diversity plays a part in the daily operations of the business
- Identify traits that leaders should possess in the business environment.

Explain the importance of civic engagement and its role in business.

Demonstrate knowledge of mastering outcomes through reflection.

Describe personal outcomes through reflection.

Analyze outcomes to create a path for improvement.

BPA 280-299 - Special Topics in Business and Management

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An in-depth study of contemporary issues designed to meet the changing needs and interests of students. Courses provide students with an opportunity to explore those topics that affect current business practices and are not fully covered in the other traditional course offerings. A maximum of eight credit hours earned from special topics courses maybe used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-30. Note: *Completion of BPA 111 or an appropriate level of business experience is highly recommended.*

Chemistry

CHE 011 - Introduction to Chemistry

2 equivalent hours - Two hours weekly; one term.

Study the fundamentals of chemistry including atomic theory, chemical bonding, naming compounds, stoichiometry. Use basic chemical terminology and principles appropriately to solve chemistry problems quantitatively and explain chemical phenomenon qualitatively. This course is for students whose ACT math score indicates a need for strengthening mathematical ability or for students who have not successfully completed one year of high school chemistry and need more background in chemistry before registering for CHE 111. Prereq(s): *Completion of MAT 034, MAT 036, or MAT 044 with a grade of C or higher, or eligibility for MAT 037, MAT 045, or MAT 135.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Use basic chemical terminology and principles appropriately.

Use appropriate mathematical tools to solve chemistry problems.

Explain or describe chemical phenomena qualitatively.

Identify molecules as polar or nonpolar and describe differences in their behavior.

CHE 103 - World of Chemistry

3 credit hours - Three hours weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Learn about fundamental concepts of chemistry. Develop an awareness of the interrelation of chemistry and society. Discuss how scientific knowledge is determined, validated, and applied. Use conceptual approach to study topics including atomic structure, chemical reactions, and applications such as nuclear, biological, and environmental chemistry. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Note: *This course does not satisfy curricular requirements for a laboratory science course.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Define and use chemical terminology and scientific notation correctly.

Explain the role of various parts of the atom in determining chemical and nuclear reactivity.

Explain how electrostatic force applies to structure, bonding, and chemical reactivity.

Use symbols to write, balance, and describe simple chemical reactions.

In context, discuss how a body of scientific knowledge is built, verified, and communicated.

Determine how goods and substances that we use in our daily lives impact us and the environment.

CHE 111 - General Chemistry 1

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Study atomic theory and periodic relationships, chemical bonding, gases, liquids and solids, stoichiometry, kinetic-molecular theory, solutions, oxidation-reduction,

reactions of molecules and ions and nuclear chemistry. Laboratory work includes basic techniques and principles as well as quantitative measurements by titration, calorimetry and stoichiometry. Lab fee \$55. Prereq(s): *MAT 137 or MAT 145 (formerly MAT 141) with a grade of C or better or eligibility for MAT 146 or higher and eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as CHE 111H; credit is not given for both CHE 111 and either of these courses: CHE 111H or CHE 115.* Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Use basic chemical terminology and principles appropriately.
- Explain chemical phenomena using appropriate mathematical tools.
- Explain or describe chemical phenomena qualitatively.
- Relate atomic-scale structure to chemical and physical properties of matter.
- Demonstrate effective laboratory skills.

CHE 111H - General Chemistry 1 – Honors

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This is an honors course. Study atomic theory and periodic relationships, chemical bonding, gases, liquids and solids, stoichiometry, kinetic-molecular theory, solutions, oxidation-reduction, reactions of molecules and ions and nuclear chemistry. Laboratory work includes basic techniques and principles as well as quantitative measurements by titration, calorimetry and stoichiometry. Lab fee \$55. Prereq(s): *Eligibility for Honors courses and completion of MAT 137 or MAT 145 (formerly MAT 141) with a grade of C or better or eligibility for MAT 146 or higher and eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as CHE 111; credit is not given for both CHE 111H and either of these courses: CHE 111 or CHE 115.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Use basic chemical terminology and principles appropriately.
- Explain chemical phenomena using appropriate mathematical tools.
- Explain or describe chemical phenomena qualitatively.
- Relate atomic-scale structure to chemical and physical properties of matter.
- Demonstrate effective laboratory skills.

CHE 112 - General Chemistry 2

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Study the fundamental principles and quantitative aspects of chemical equilibrium, acid-base chemistry and acid-base equilibria, solubility equilibria, thermodynamics, electrochemistry, kinetics, basic concepts in nuclear chemistry and an introduction to organic chemistry nomenclature and structure. Laboratory work applies theoretical principles presented in the lecture and includes: data collection and analysis, basic laboratory techniques and use of chemical instrumentation; use of chemical literature and databases, use of a laboratory notebook to record data and results, methods of qualitative analysis, and written communication of results and conclusions in the form of lab reports. Lab fee \$55. Prereq(s): *CHE 111 with a grade of C or better, either MAT 137 or MAT 145 (formerly MAT 141) with a grade of C or better or eligibility for MAT 146 or higher and eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as CHE 112H; credit is not given for both CHE 112 and CHE 112H.* Note: *It is recommended that students have completed General Chemistry 1 within 4 years prior to taking General Chemistry 2.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Use basic chemical terminology and principles appropriately.
- Explain chemical phenomena using appropriate mathematical tools.
- Explain or describe chemical phenomena qualitatively.
- Relate atomic-scale structure to chemical and physical properties of matter.
- Demonstrate effective laboratory skills.

CHE 112H - General Chemistry 2 – Honors

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This is an honors course. This course meets the Biological and Physical Sciences General Education Requirement. Study the fundamental principles and quantitative aspects of chemical equilibrium, acid-base chemistry and acid-base equilibria, solubility equilibria, thermodynamics, electrochemistry, kinetics, basic concepts in nuclear chemistry and an introduction to organic chemistry nomenclature and structure. Laboratory work applies theoretical principles presented in the lecture and includes: data collection and analysis, basic laboratory techniques and use of chemical instrumentation; use of chemical literature and databases, use of a laboratory notebook to record data and results, methods of qualitative analysis, and written communication of results and conclusions in the form of lab reports. Lab fee \$55. Prereq(s): *Eligibility for honors courses, CHE 111 with a grade of C or better, either MAT 137 or MAT 145 (formerly MAT 141) with a grade of C or better or eligibility for MAT 146 or higher, and eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as CHE 112; credit is not given for both CHE 112H and CHE 112.* Note: *It is recommended that students have completed General Chemistry 1 within 4 years prior to taking General Chemistry 2.*

Course Outcomes

- Use basic chemical terminology and principles appropriately.**
- Explain chemical phenomena using appropriate mathematical tools.**
- Explain or describe chemical phenomena qualitatively.**
- Relate atomic-scale structure to chemical and physical properties of matter.**
- Demonstrate effective laboratory skills.**

CHE 113 - Fundamentals of Organic and Biochemistry

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Study an introduction to the chemistry of carbon compounds and of living systems. Nomenclature, structure, properties and reactions of the principal organic families are studied, and anthropogenic carbon compounds are discussed in relation to health and the environment. The biochemistry studies the structure, properties, and functions of carbohydrates, proteins, lipids and nucleic acids. Protein synthesis, enzyme regulation and metabolism are included. Intended for students in health-related professions and students interested in applying chemistry to the environment and living systems. Science and engineering students should take CHE 112. Lab fee \$70. Prereq(s): *CHE 111.* Note: *Credit is not given for both CHE 113 and CHE 213. CHE 113 is not to be used as a prerequisite for CHE 213 or CHE 214.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Use chemical terminology, nomenclature, and principles appropriately.
2. Describe relevant physical and chemical properties of organic compounds using such concepts as structural theory, chirality, and acidity/basicity.
3. Determine organic chemistry reaction outcomes.
4. Explain the structure and function of the major classes of biomolecules in terms of the relevant chemical properties.
5. Integrate concepts to explain biochemical processes and to address societal issues.
6. Develop skills in organic chemistry laboratory techniques and procedures, including literature research and communicating laboratory results.

CHE 115 - General, Organic and Introduction to Biochemistry

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Survey the principles of general, organic, and biochemistry and how they relate to biological systems. Topics include atomic theory, nuclear chemistry, nomenclature, bonding theory, states of matter, mixtures, acid-base chemistry, stoichiometry, chemical reactions involving organic molecules, and biologically important molecules. Laboratory work includes basic techniques and principles as well as quantitative measurements by titration and stoichiometry. This course is intended for students transferring to a health professions program requiring only one term of chemistry. Students transferring to an allied health program requiring two terms of chemistry should take CHE 111 and CHE 113. Students who are unsure of their transfer goals should take CHE 111. This course is also appropriate for the liberal arts major with a strong interest in chemistry. Lab fee \$55. Prereq(s): *Eligibility for ENG 101/ENG 101A and MAT 137.* Note: *Credit will not be given for both CHE 115 and either CHE 111 or CHE 113 or CHE 213. This course is not to be used as a prerequisite for CHE 111, CHE 112, CHE 113, CHE 213 or CHE 214.* Location(s) Typically Offered: Arnold Main Campus (MC). Term(s) Typically Offered: Fall and spring

Course Outcomes

- Use basic chemical terminology and principles appropriately.
- Explain chemical phenomena using appropriate mathematical tools.
- Explain chemical phenomena qualitatively.
- Relate atomic-scale structure to chemical and physical properties of matter.
- Relate chemical principles to the chemistry of biological systems.
- Demonstrate effective laboratory skills.

CHE 134 - Chemistry Topics for Engineering

1 credit hour - One hour of lecture weekly; one term.

Study general chemistry topics relating to phase transitions, crystalline solids and semiconductors, chemical equilibrium including weak electrolytes, electrochemistry, kinetics and introductory organic chemistry Prereq(s): *CHE 111 with a grade of C or better and either MAT 137 or MAT 145 with a grade of C or better or eligibility for MAT 151.* Note: *This course is intended for students transferring in certain engineering programs to the University of Maryland College Park. Consult with the engineering department chair before registering.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Use basic chemical terminology and principles appropriately.
- Explain chemical phenomena using appropriate mathematical tools.
- Explain or describe chemical phenomena qualitatively.
- Relate atomic-scale structure to chemical and physical properties of matter.
- Demonstrate effective laboratory skills.

CHE 213 - Organic Chemistry 1

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Study the chemistry of hydrocarbons and their simple derivatives, emphasizing their structures, properties and mechanisms of reactions. Use general laboratory techniques and procedures in organic chemistry and learn modern methods of analysis, including gas chromatography. Lab fee \$70. Prereq(s): *CHE 112 or CHE 112H.* Crosslisted: *Also offered as CHE 213H; credit is not given for both CHE 113 and CHE 213 or CHE 213 and CHE 213H.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Determine organic chemistry reaction outcomes using mechanisms and stereochemical principles, and applying relevant principles of thermodynamics and kinetics as appropriate.
- Design synthesis pathways for organic compounds.
- Describe relevant physical and chemical properties of organic compounds using such concepts as structural theory, chirality, and strain energy.
- Name organic compounds using both IUPAC rules and common terminology.
- Deduce structures of simple organic compounds using mass spectrometry (MS), infrared spectroscopy (IR), and nuclear magnetic resonance spectroscopy (NMR).
- Integrate concepts to solve challenging problems and to address societal issues.
- Develop skills in organic chemistry laboratory techniques and procedures, including chemical literature research and communicating laboratory results.

CHE 213H - Organic Chemistry 1 – Honors

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This is an honors course. Study the chemistry of hydrocarbons and their simple derivatives, emphasizing their structures, properties and mechanisms of reactions. Use general laboratory techniques and procedures in organic chemistry and learn modern methods of analysis, including gas chromatography. Lab fee \$70. Prereq(s): *CHE 112 or CHE 112H and eligibility for Honors courses.*

Crosslisted: *Also offered as CHE 213; credit is not given for both CHE 113 and CHE 213H or CHE 213H and CHE 213.* Location(s)

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AACC 2024-2025 Print Catalog

(Refer to www.catalog.aacc.edu for most updated 2024-2025 catalog available)

Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Determine organic chemistry reaction outcomes using mechanisms and stereochemical principles, and applying relevant principles of thermodynamics and kinetics as appropriate.
- Design synthesis pathways for organic compounds.
- Describe relevant physical and chemical properties of organic compounds using such concepts as structural theory, chirality, and strain energy.
- Name organic compounds using both IUPAC rules and common terminology.
- Deduce structures of simple organic compounds using mass spectrometry (MS), infrared spectroscopy (IR), and nuclear magnetic resonance spectroscopy (NMR).
- Integrate concepts to solve challenging problems and to address societal issues.
- Develop skills in organic chemistry laboratory techniques and procedures, including chemical literature research and communicating laboratory results.

CHE 214 - Organic Chemistry 2

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Study the chemistry of the families of organic compounds, emphasizing preparations, reactions, and mechanisms of reactions. Learn to apply spectroscopy to determine structure, and preview compounds of biological importance. Synthesize representative organic compounds in the laboratory. Use modern methods of analysis, including infrared and nuclear magnetic resonance spectroscopy. Lab fee \$70. **Prereq(s):** CHE 213 or CHE 213H. **Crosslisted:** Also offered as CHE 214H; credit is not given for both CHE 214 and CHE 214H. **Location(s) Typically Offered:** Arnold Main Campus (MC) **Term(s) Typically Offered:** Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Determine organic chemistry reaction outcomes using mechanisms and stereochemical principles, and applying relevant principles of thermodynamics and kinetics as appropriate.
- Design synthesis pathways for organic compounds.
- Describe relevant physical and chemical properties of organic compounds using such concepts as structural theory, chirality, and strain energy.
- Name organic compounds using both IUPAC rules and common terminology.
- Deduce structures of organic compounds using mass spectrometry (MS), infrared spectroscopy (IR), and nuclear magnetic resonance spectroscopy (NMR).
- Integrate concepts to solve challenging problems and to address societal issues.
- Explain fundamental properties of biomolecules such as lipids, carbohydrates, proteins.
- Develop skills in organic chemistry laboratory techniques and procedures, including chemical literature research and communicating laboratory results.

CHE 214H - Organic Chemistry 2 – Honors

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This is an honors course. Study the chemistry of the families of organic compounds, emphasizing preparations, reactions, and mechanisms of reactions. Learn to apply spectroscopy to determine structure, and preview compounds of biological importance. Synthesize representative organic compounds in the laboratory. Use modern methods of analysis, including infrared and nuclear magnetic resonance spectroscopy. Lab fee \$70. **Prereq(s):** CHE 213 or CHE 213H and eligibility for Honors courses. **Crosslisted:** Also offered as CHE 214; credit is not given for both CHE 214H and CHE 214. **Location(s) Typically Offered:** Arnold Main Campus (MC) **Term(s) Typically Offered:** Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Determine organic chemistry reaction outcomes using mechanisms and stereochemical principles, and applying relevant principles of thermodynamics and kinetics as appropriate.
- Design synthesis pathways for organic compounds.

Describe relevant physical and chemical properties of organic compounds using such concepts as structural theory, chirality, and strain energy.

Name organic compounds using both IUPAC rules and common terminology.

Deduce structures of organic compounds using mass spectrometry (MS), infrared spectroscopy (IR), and nuclear magnetic resonance spectroscopy (NMR).

Integrate concepts to solve challenging problems and to address societal issues.

Explain fundamental properties of biomolecules such as lipids, carbohydrates, proteins.

Develop skills in organic chemistry laboratory techniques and procedures, including chemical literature research and communicating laboratory results.

CHE 253 – Biochemistry

3 credit hours - Three hours lecture weekly, one term.

Study the structures, reactions, and relationships of biochemical systems, focusing on proteins, enzyme kinetics, carbohydrates, lipids, membrane structure, metabolism, nucleic acids, and genetic information. Prereq(s): *CHE 214, or CHE 213 with permission of the department chair.* Note: *This course is not intended for transfer.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring and summer

Course Outcomes

1. Explain the structure and function of the major classes of biomolecules in terms of relevant chemical principles.
2. Explain the major processes and pathways of metabolism.
3. Explain the processes of the transmission of genetic information.

CHE 280-299 - Special Topics in Chemistry

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Independent study for qualified students who wish to enrich their back-grounds in a particular area. Topics are determined by mutual agreement of the student and the instructor. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Prereq(s): *Sophomore standing and permission of department chair.*

Communications (Journalism, Speech)

COM 101 - Introduction to Mass Media

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn about the history and theory of mass media in America. Discuss the development, practices and problems of mass media. Learn to understand and critically evaluate media messages. Prereq(s): *Eligibility for ENG 101/ENG 101A or permission of the department.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Describe the fundamental principles, concepts, and practices of various print and electronic media
Analyze news through objective inquiry and assessment of data
Analyze film, television, radio, print, and digital media for content and consequence
Apply ethical principles to the production and consumption of journalism
Explain the impact and scope of advancements in the communications field
Interpret messages as they are delivered by various media
Analyze news topics from a variety of perspectives, such as local, national, and global

COM 102 - Writing for News Media 1

3 credit hours - Three hours weekly; one term.

Learn about and practice news writing for print and electronic media. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

COM 110 - Introduction to Interpersonal Communication

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Explore the function of verbal and nonverbal communication in the development of interpersonal relationships. Study perception, self-concept, listening, intercultural and intergender communication and conflict management. Crosslisted: *Also offered as COM 110H; credit not given for both COM 110 and COM 110H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

- Explain the variables influencing the communication process;
- Analyze potential barriers to effective communication through the application of communication theory;
- Identify personal strengths and weaknesses as an interpersonal communicator;
- Identify, analyze, and perform message formulation skills;
- Identify, analyze, and perform listening response skills;
- Identify, analyze, and perform conflict management skills.

COM 110H - Introduction to Interpersonal Communication – Honors

3 credit hours - Three hours lecture weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Explore the function of verbal and nonverbal communication in the development of interpersonal relationships. Study perception, self-concept, listening, intercultural and intergender communication and conflict management. Prereq(s): *Eligibility for Honors courses.* Crosslisted: *Also offered as COM 110; credit is not given for both COM 110H and COM 110.* Note: *Complete and present an honors research project.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

- Explain the variables influencing the communication process;
- Analyze potential barriers to effective communication through the application of communication theory;
- Identify personal strengths and weaknesses as an interpersonal communicator;
- Identify, analyze, and perform message formulation skills;
- Identify, analyze, and perform listening response skills;
- Identify, analyze, and perform conflict management skills.

COM 111 - Fundamentals of Oral Communication

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn about public speaking theory, and develop the skills needed to speak effectively in various situations. Learn about clear oral expression, informed critical thinking, research techniques, rhetorical modes and group communication. Write and deliver several speeches. Note: *Eligibility for ENG 101 or ENG 101A is strongly recommended.* Location(s) Typically Offered: Arnold Main Campus (AC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

1. Demonstrate orally and in writing an understanding of the fundamental principles of communication.
2. Select a topic, research, and organize oral messages appropriate for the purpose, audience and communication situation.
3. Exhibit effective delivery skills suited to the purpose, audience, and occasion.
4. Exhibit effective listening skills and critically evaluate verbal and nonverbal messages.
5. Deliver speeches that conform to ethical guidelines for public speaking, recognize the influence of culture on messages, and exhibit an awareness of diversity, inclusiveness, and equity.

COM 112 - Newspaper Editing and Production

3 credit hours - Three hours weekly; one term.

Learn the basic techniques of copy editing and headline writing. Prereq(s): *COM 102.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

COM 116 - Fundamentals of Oral Communication for Non-Native Speakers

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Cover essentially the same material as COM 111 with special emphasis on the oral communication challenges faced by non-native speakers of English. Learn about public speaking theory, and develop the skills needed to speak effectively in various situations. Learn about clear oral expression, informed critical thinking, research techniques, rhetorical modes and group communication. Write and deliver several speeches. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Note: *Students may not receive credit for both COM 111 and COM 116*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate orally and in writing an understanding of the fundamental principles of communication.
2. Select a topic, research, and organize oral messages appropriate for the purpose, audience and communication situation.
3. Exhibit effective delivery skills suited to the purpose, audience, and occasion.
4. Exhibit effective listening skills and critically evaluate verbal and nonverbal messages.
5. Deliver speeches that conform to ethical guidelines for public speaking, recognize the influence of culture on messages, and exhibit an awareness of diversity, inclusiveness, and equity.

COM 130 - Current Events in Global Context

3 credit hours - Three hours weekly; one term.

Survey local, national, and world news with emphasis on understanding the background, context, and vocabulary of current news events as well as the personalities and relationships that affect those events. Read current news accounts, and through research and interactive assignments, learn how news events are globally interconnected. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Analyze major news trends and events.

- Explain what makes news.
- Demonstrate how to gather information from news reports.
- Explain how to recognize trends in news events.

Analyze how historical events have set the stage for current events.

- Explain the background and context of ongoing narratives in world events.
- Explain the relationships between different cultures that can trigger events on the world stage.

Analyze the major forces whose actions and decisions affect world events.

- Analyze how local, national and world leaders help set the course of events.
- Identify key local, national and world leaders.
- Explain how other forces, such as weather, politics, economics and social movement affect events.
- Explain how world organizations (NATO, United Nations, and non-governmental organizations) help steer events.

Integrate vocabulary and geography with ongoing narrative of current events.

- Identify countries, borders, and key cities on a map.
- Define key words associated with people, groups, and countries.

Analyze the global interconnectedness of current events.

- Describe how other cultures report news events.
- Describe how a decision in one country can affect the lives of people in other countries.

Develop the tools for continued monitoring and understanding of world events.

- Demonstrate familiarity with major news organizations both in the U.S. and abroad.
- Find information online and in library holding that will enhance continued knowledge and understanding of ongoing news events.

COM 141 - Group Communication and Leadership

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn principles and procedures for effective communication in small groups. Develop leadership skills for use in business, community and other task-oriented work teams. Gain experience with various types of formal and informal group organization methods, member roles and communication formats. Evaluate group processes and outcomes in interpersonal, peer, and virtual groups and teams. Prereq(s): *Eligibility for ENG 101/ENG*

101A. Note: Typically offered at MC and OL; fall, spring, and summer terms.

Course Outcomes

- Identify different kinds of groups, the elements of small group discussion, and the advantages and disadvantages of group work;
- Apply knowledge of group norms and group development in small group discussions
- Apply knowledge of group planning and participation procedures in small group discussions;
- Apply knowledge of group task and maintenance roles, verbal and non-verbal communication, and listening in small group discussions;
- Apply knowledge of leadership power structures in small group discussions;
- Apply conflict resolution skills in group settings;
- Apply knowledge of group decision-making skills in group settings.

COM 200 - Intercultural Communication

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social & Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Investigate the challenges of communication with individuals from different cultures. Learn to describe and analyze cultural patterns. Study strategies for increasing intercultural communication competency. Crosslisted: *Also offered as COM 200H; credit is not given for both COM 200 and COM 200H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

- Describe the values and expectations of one's own culture(s).
- Describe one's own culture identity and the ways in which it influences social and personal identity.
- Describe patterns of other cultures using intercultural communication theories and culture taxonomies.
- Describe the role of cultural patterns, verbal codes, and nonverbal codes in the development of intercultural interpersonal relations.
- Utilize specific intercultural communication theories to describe, analyze, and make valid inferences about obstacles to competent intercultural communication.
- Exhibit communication skills that reflect competence in intercultural communication.

COM 200H - Intercultural Communication – Honors

3 credits - Three hours weekly; one term

This is an honors course. This course meets the Arts & Humanities General Education Requirement. This course meets the Social & Behavioral Sciences General Education Requirement. Investigate the challenges of communication with individuals from different cultures. Learn to describe and analyze cultural patterns. Study strategies for increasing intercultural communication competency. Prereq(s): *Eligibility for Honors courses.* Crosslisted: *Also offered as COM 200; credit is not given for both COM 200H and COM 200.* Note: *Complete and present an honors research project.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

- Describe the values and expectations of one's own culture(s).
- Describe one's own culture identity and the ways in which it influences social and personal identity.
- Describe patterns of other cultures using intercultural communication theories and culture taxonomies
- Describe the role of cultural patterns verbal code, and nonverbal codes in the development of intercultural interpersonal relations.
- Describe, analyze, and make valid inferences about obstacles to competent intercultural communication using intercultural communication theories.
- Exhibit communication skills that reflect competence in intercultural communication.

COM 202 - Writing for the News Media 2

3 credit hours - Three hours weekly; one term.

Build on reporting and writing techniques learned in COM 102, with emphasis on developing sources, covering news beats, understanding media law and ethics, and reporting for print and electronic media. Study a range of news gathering techniques, learn to

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develop story ideas and use public records and practice journalistic writing. Prereq(s): *COM 102 or permission of the department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Analyze the role of journalism in a democracy.

- Explain how the press functions as a watchdog on public officials and agencies.
- Explain the relationship between the press and society.

Access and use public records.

- Find statistics and other information online.
- Evaluate information for credibility.
- Recognize which records are required to be open to the public.
- Access public records in hard copy and online.
- Explain the open meetings law.

Find and interview sources.

- Employ initiative and creativity in finding and contacting sources.
- Demonstrate effective interviewing techniques.

Effectively cover a news beat.

- Determine what is important to readers about the beat.
- Determine how to contact key players on the beat.

Explain journalism ethics.

- Explain the Society of Professional Journalists code of ethics.
- Explain professional standards of ethical journalism.

Explain the basics of media law.

- Explain libel laws in reference to case law.
- Explain invasion of privacy with reference to case law.

Demonstrate sound journalistic writing.

- Apply the basics of news writing style to writing projects.
- Demonstrate an understanding of Associated Press style.
- Explain syntax and word use as it pertains to news writing.
- Explain punctuation as it pertains to news writing.

COM 230 - Persuasive Message Strategies

3 credit hours - Three hours weekly; one term.

Learn cutting-edge persuasive communication strategies used in interpersonal communication, including the areas of advertising and political campaigns. Examine current research on persuasion and how the media frames issues. Gain the knowledge and skills to create and evaluate persuasive messages. Crosslisted: *Also offered as COM 230H; credit is not given for both COM 230 and COM 230H*. Note: *Eligibility for ENG 101 or ENG 101A is strongly recommended*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Explain a variety of classical rhetorical theories of persuasion;
- Explain a variety of contemporary social science theories of persuasion;
- Analyze how persuasion functions in a variety of contexts;
- Use appropriate, effective, ethical uses of persuasion;
- Research, organize, and prepare a written and oral presentation that is appropriate for its purpose, context, and audience.

COM 230H - Persuasive Message Strategies – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. Learn cutting-edge persuasive communication strategies used in interpersonal communication, including the areas of advertising and political campaigns. Examine current research on persuasion and how the media frames issues. Gain the knowledge and skills to create and evaluate persuasive messages. Prereq(s): *Eligibility for Honors courses*. Crosslisted: *Also offered as COM 230; credit is not given for both COM 230H and COM 230*. Note: *Eligibility for ENG 101 or ENG 101A is strongly recommended*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Explain a variety of classical rhetorical theories of persuasion;
- Explain a variety of contemporary social science theories of persuasion;
- Analyze how persuasion functions in a variety of contexts;
- Use appropriate, effective, ethical uses of persuasion;
- Research, organize, and prepare a written and oral presentation that is appropriate for its purpose, context, and audience.

COM 240 - Introduction to Communication Theory

3 credit hours - Three hours lecture weekly; one term.

Examine and analyze basic communication theories in intrapersonal, interpersonal, group, organizational, cultural, gender, and mass communication contexts. Apply theories to professional communication situations in social sciences, government, politics, journalism, entertainment, education, marketing, and health care. Prereq(s): *COM 101, COM 110, COM 111, COM 141, COM 200, or COM 230.*

Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Explain communication theories and their key concepts and goals.
- Distinguish objective (social scientific) and interpretive (humanistic) approaches to communication research.
- Identify the purposes of communication theories (i.e., to make predictions, understand human behavior and/or promote social change).
- Identify major research methods used by communication theorists.
- Apply appropriate criteria to judge the utility of various theories.
- Apply the concepts of communication theories to the analysis of real human communication challenges.

COM 275 - Journalism Practicum

1 credit hour - Two and a half hours weekly; one term.

Work on the student newspaper under supervision of the student editor and faculty adviser. One credit is given for two and a half hours per week up to a maximum of three credits per term. Students write and edit for publication and may work on any phase of newspaper production, including writing stories, copy editing, headline writing and layout production. Practicum courses may be combined for a total of six credit hours. Prereq(s): *Successful completion of COM 102 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring and summer

COM 276 - Journalism Practicum

2 credit hours - Five hours weekly; one term.

Work on the student newspaper under supervision of the student editor and faculty adviser. One credit is given for two and a half hours per week up to a maximum of three credits per term. Students write and edit for publication and may work on any phase of newspaper production, including writing stories, copy editing, headline writing and layout production. Practicum courses may be combined for a total of six credit hours. Prereq(s): *Successful completion of COM 102 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring and summer

COM 277 - Journalism Practicum

3 credit hours - Seven and a half hours weekly; one term.

Work on the student newspaper under supervision of the student editor and faculty adviser. One credit is given for two and a half hours per week up to a maximum of three credits per term. Students write and edit for publication and may work on any phase of newspaper production, including writing stories, copy editing, headline writing and layout production. Practicum courses may be combined for a total of six credit hours. Prereq(s): *Successful completion of COM 102 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: All terms

COM 280-299 - Special Topics in Communications

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Study current trends or specialized themes or topics in communications. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Note: *Eligibility for ENG 101/ENG 101A.*

Computer Technologies

CTA 001 - Elementary PC Skills

1 equivalent hour - 25 hours; one term.

Formerly CSI 001 - Elementary PC Skills Examine and practice elementary hardware and software system operations. Demonstrate using proper techniques for starting and shutting down the computer, adjusting the monitor, handling compact disk and other storage devices, keyboarding, mouse manipulation, formatting and working with CD-ROMs and DVDs, copying files, opening, saving and storing files on internal and external devices, working with the Windows Operating System, starting applications and using the printer. Students are also exposed to computer technology. Course fee \$13. Note: *Introduces students with little or no prior computer experience to the elements of using a PC.*

Course Outcomes

Describe main components of personal computers

Describe and discuss main components of a personal computer

Demonstrate proper power up and power down procedures

Demonstrate warm and cold start up procedures and log off and power off procedures

Make adjustments to display monitor

Make adjustments for brightness, color and screen adjustments

Demonstrate familiarity with keyboard

Understand the use of standard keys, special keys and function keys

Perform mouse movement and button clicking operations

Understand the use of a mouse as a pointing device

Understand single click, double click, right click and drag

Set up printer to accept output

Understand on line and offline printing

Change from single part to multi part paper and custom designed output sheets

Demonstrate proper handling of diskette storage media

Understand the proper handling of removable storage media

Understand the proper way to connect media to a port

Describe the difference between hardware and software

Understand the two types of software (system and applications)

Understand the components of the information processing cycle (input, process, storage, output)

Start up operating environment

Understanding difference between cold start and warm start

Understanding proper shut down methods (log off, sleep mode, power off)

Escape from system crash

Recover from a system crash

Save files, create backups and restore backups

Understand the use of folders to save files

Understand the use of utilities to copy files

CTA 100 - Computing and Information Technology

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 112 - Computing and Information Technology This course meets the Technology Requirement. Learn computing and information technology concepts and skills that are fundamental to social, personal, business, and academic environments. Learn about the Internet, networking, hardware, software, security, privacy, ethics, and emerging technologies. Participate in hands-on labs using Microsoft Office applications, including word processing, spreadsheets, databases, and presentations, and the Windows operating system. Designed for the nonmajor. Prereq(s): *Eligibility for ENG 101 / ENG 101A.* Crosslisted: *Also offered as CTA 100H; credit is not given for both CTA 100 and CTA 100H.* Note: *Credit is not given for both CTA 100 and CTP 103 or CTP 103H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

- Apply computing and information technology concepts and skills that are fundamental to social, personal, business, and academic environments.
- Discuss how technology issues in the areas of the Internet, networking, hardware, software, security, privacy, ethics, ergonomics, and emerging technologies affect the community, including their impact on diversity issues and cultural awareness.
- Describe the relationship between technology and other disciplines and career fields.
- Use proficiently a variety of commonly used application, word processing, spreadsheet, presentation, database, and digital media editing software.

CTA 100H - Computing and Information Technology – Honors

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 112H - Computing and Information Technology, Honors This is an honors course. This course meets the Technology Requirement. Learn computing and information technology concepts and skills that are fundamental to social, personal, business, and academic environments. Learn about the Internet, networking, hardware, software, security, privacy, ethics, and emerging technologies. Participate in hands-on labs using Microsoft Office applications, including word processing, spreadsheets, databases, and presentations, and the Windows operating system. Designed for the nonmajor. Prereq(s): *Eligibility for honors courses and ENG 101/ENG 101A.* Crosslisted: *Also offered as CTA 100; credit is not given for both CTA 100 and CTA 100H.* Note: *Credit is not given for both CTA 100H and CTP 103H or CTA 100 and CTA 100H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

1. Apply computing and information technology concepts and skills that are fundamental to social, personal, business, and academic environments.
2. Discuss how technology issues in the areas of the Internet, networking, hardware, software, security, privacy, ethics, ergonomics and emerging technologies affect the community, including their impact on diversity issues and cultural awareness.
3. Describe the relationship between technology and other disciplines and career fields.
4. Use proficiently a variety of commonly used application, word processing, spreadsheet, presentation, database, and digital media editing software.

CTA 105 - Theory and Troubleshooting Microcomputers 1

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term. Formerly CTS 103 - Theory and Troubleshooting Microcomputers 1 Examine the function and operation of computer systems and mobile devices. Assemble, maintain, and repair computer systems. Learn how systems are configured, modified, and expanded. Investigate, analyze, and correct common hardware problems. Note: *This course addresses the material of the CompTIA A+ exam objectives. It is highly recommended that students who do not have a working knowledge of computers complete CTA 100 before enrolling in CTA 105.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Identify and describe hardware components and peripheral devices used in computer systems.
2. Demonstrate the ability to install components such as CPUs, storage devices, and a power supply.
3. Describe characteristics of mobile devices, their features and accessories.
4. Explain common cabling, protocols, and standards used in wired and wireless networks.
5. Demonstrate hardware and network troubleshooting techniques.
6. Develop the skills to select, build, and modify personal computers and identify comparable mobile device hardware.

CTA 106 - Introduction to Project Management

3 credit hours - Three hours of lecture weekly; one term.

Formerly CSI 116 - Introduction to Project Management Study the basics of project management. Explain the concepts behind successful project management and investigate the key elements of the project management framework. This course addresses the core material of the CompTIA Project+ exam objectives. Prereq(s): *CTA 100 or CTP 103 and eligibility for ENG 101/ENG 101A.*

Crosslisted: Also offered as BPA 106; credit is not given for both CTA 106 and also for BPA 106.

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe project management.
- Describe elements of the project management framework.
- Explain the role of project management in technology projects.
- Describe the five process groups of project management and how they are related.
- Explain the purpose of project integration management.
- Develop a project plan using project management software.

CTA 108 - Service Management Foundation

3 credit hours - Three hours lecture weekly; one term

Examine the key concepts of Information Technology Service Management (ITSM). Define common vocabulary and metrics used in the industry. Discuss the management of modern IT-enabled services. Describe how well-managed and reliable Information Technology solutions add value to the organization by introducing a well-established service management framework. Prereq(s): Eligibility for ENG 101/ENG 101A. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

1. Identify the key concepts of service management, value services, and service relationships.
2. Describe the four dimensions of service management and service value system.
3. Describe the interconnected nature of the service value chain and how this supports valuestreams.
4. Apply guiding principles of service management, service value system, and service valuechain.
5. Apply the guiding principles of incident management and change management.

CTA 110 - Personal Computer Office Suite Applications

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 121 - Personal Computer Office Suite Applications Learn office suite software using Microsoft Office. Acquire hands-on experience with the Internet and Web, word processing, spreadsheet, database management and presentation graphics, satisfying computing needs in a range of applications. Integrate data among the different software applications in the suite. Note: Users with no prior software applications experience are encouraged to take one of the following before taking this course: CTA 100 or CTP 103. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Create, edit, revise, and refine documents, and create outlines, reports, and tables in a word processing application such as Microsoft Word.
- Create, edit, and manage worksheets and charts in a spreadsheet application such as Microsoft Excel.
- Create and modify tables, forms, queries, and reports in a database application such as Microsoft Access.
- Build, edit, and enhance presentations in a slide presentation application such as Microsoft PowerPoint.
- Perform copy/paste, linking, and embedding tasks between multiple office productivity applications.

CTA 111 - Personal Computer Word Processing Applications

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 120 - Personal Computer Word Processing Applications Use Microsoft Word to create, edit, format, save and print a document. Learn intermediate and advanced features including mail merge, envelopes and labels, sorting, styles, columns, footnotes, outlines, table of contents, indexes, master documents, templates, Web pages, graphics, charts and macros. Use a wide variety of document types and practical examples to provide an understanding of different ways Word can be applied to personal and business needs. This course prepares students to take the Microsoft Office Specialist (MOS) - Word industry certification exam (extra fee). Note: Users with no prior software applications experience are encouraged to take one of the following before taking this course: CTA 100 or CTP 103. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, winter, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Create a document in Microsoft Word.
- Edit and format a document in Microsoft Word.
- Create a multiple-page report in Microsoft Word.
- Create a brochure using Microsoft Word's desktop publishing features.
- Create a document in Microsoft Word using templates, themes, and styles.
- Use Microsoft Word's mail merge feature.
- Collaborate with others in creating and editing a document.
- Create web pages using Microsoft Word.
- Customize automating tasks in Microsoft Word.
- Create online forms and use advanced table techniques in Microsoft Word.
- Manage long Microsoft Word documents.

CTA 112 - Personal Computer Presentation Graphics Applications

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 125 - Personal Computer Presentation Graphics Applications Use Microsoft PowerPoint to learn the basic skills needed to create, edit, format, save and print professional-looking electronic slide presentations. Learn intermediate and advanced features including using outline view, inserting clip art, creating a presentation as a Web page, using embedded visuals, creating slide transitions, animation effects, interactive documents, charts and tables, importing sound clips, creating self-running presentations, distributing presentations to remote audiences and using Visual Basic for Applications to customize a presentation. Use a wide variety of projects to provide an understanding of different ways PowerPoint can be utilized. This course will prepare students to take the Microsoft Office Specialist (MOS) - PowerPoint industry certification exam (extra fee). Note: *Users with no prior software applications experience are encouraged to take one of the following before taking this course: CTA 100 or CTP 103.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the use of PowerPoint presentations.
- Identify the parts of the PowerPoint window.
- Create and save a basic PowerPoint presentation.
- Modify PowerPoint presentations and add graphic objects.
- Add and customize slides and charts in PowerPoint.
- Integrate PowerPoint with other Office applications.
- Collaborate with others in creating PowerPoint presentations.
- Apply advanced special effects to PowerPoint presentations.
- Create special types of PowerPoint presentations.

CTA 113 - Personal Computer Information Management Applications

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 126 - Personal Computer Information Management Applications Use Microsoft Outlook to learn how to manage communications by using email, fax, address book features, public folders, and remote work options. Describe the use of groupware application software. Learn how to schedule people, appointments, tasks, and events and to create contact lists. Learn how to conduct and participate in online meetings. This course discusses email etiquette, accessibility, and security of written communication in the workplace. This course prepares the student to take the Microsoft Office Specialist (MOS) - Outlook industry certification exam (extra fee). Note: *Users with no prior software applications experience are encouraged to take one of the following before taking this course: CTA 100 or CTP 103.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Manage e-mail messages with Outlook
- Manage Outlook calendars.
- Manage contacts and personal contact information with Outlook.
- Create and manage tasks in Outlook.
- Customize Outlook.

CTA 114 - Fundamentals of Microsoft Excel

1 credit hour - One to five hours weekly; one term.

Learn the fundamentals of using Excel to create, manipulate, and analyze data. Use mathematical, statistical, logical, and financial formulas and functions on data sets. Sort, filter, and create visual representations of data sets. Acquire hands-on skills with Microsoft Excel. Lab fee \$25. Note: *Users with no prior software applications experience are encouraged to take one of the following before taking this course: CTA 100 or CTP 103.*

Course Outcomes

Apply formatting to data using Excel.

Perform mathematical calculations using functions in Excel.

Create visual representations of data using Excel.

Filter data in Excel.

CTA 115 - Personal Computer Database Management Systems

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 122 - Personal Computer Database Management Systems Use Microsoft Access database management application software used on personal computers to study and manipulate data. Learn database design and implementation of object files such as file creation and setup, query processing, report generation and program creation. Use multiple files, indexing and database search, and record retrieval to solve practical problems through hands-on lab. This course prepares students to take the Microsoft Office Specialist (MOS) Access industry certification exam (extra fee). Note: *Users with no prior software applications experience are encouraged to take one of the following before taking this course: CTA 100 or CTP 103.* Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Build a database and table relationships in Microsoft Access.

Create and maintain database Select, Action, and Advanced queries.

Create basic and customized database forms.

Create basic and customized database reports

Share, integrate, and analyze data using Access with other programs.

Develop macros to automate tasks within a database.

Write accurate Visual Basic for Applications (VBA) code for Access.

Develop a secured database using Access.

CTA 116 - Personal Computer Spreadsheet Applications

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 124 - Personal Computer Spreadsheet Applications Use Microsoft Excel to study the basics of spreadsheet setup, data manipulation and program functions. Learn more advanced features including functions, charts, lists (databases), macros, World Wide Web functions, integration with other applications, validation, 3D references, data tables, scenario manager, solver, importing external data and auditing features. Use a wide variety of practical examples to foster an understanding of different ways Excel can be applied to personal and business needs. This course prepares students to take the Microsoft Office Specialist (MOS) - Excel industry certification exam (extra fee). Note: *Users with no prior software applications experience are encouraged to take one of the following before taking this course: CTA 100 or CTP 103.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify elements of the Excel window.

Apply formatting to a worksheet.

Create formulas and use functions to perform calculations.

Create charts, PivotTables and PivotCharts.
Perform What-If analyses.
Manage multiple worksheets and workbooks.
Develop an Excel application.

CTA 120 - Help Desk Concepts

3 credit hours - Three hours of lecture weekly; one term.

Formerly CSI 129 - Help Desk Concepts Examine general help desk concepts, types, job categories and responsibilities. Discuss processes, tools, technologies to develop skills in systems management and customer service. Prepare for training and certification in Help Desk profession essentials. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Identify the role of the help desk in technical support.**
- Identify the types of help desks**
- Describe job responsibilities**
- Define help desk support tools**
- Define systems Management Requirements.**
- Describe the career opportunities for the help desk professional.**
- Explain the components of a help desk.**
- Identify the different types of help desk job categories.**
- Identify and describe help desk processes.**
- Identify and describe the help desk**
- Identify customer satisfaction strategies.**

CTA 124 - Software Testing for Quality Assurance

3 credit hours - Three hours lecture weekly; one term

Analyze how software testing impacts all software product development life cycle phases. Investigate the common characteristics, and differences in software testing. Implement standards to improve and ensure quality assurance processes are followed. Prereq(s): *CTA 100 or CTP 103 or CTS 107 or CTP 115 with a grade of C or better; and eligibility for ENG 101/ENG 101A, or approval of Computer Information Systems academic chair.*

Course Outcomes

- Compare and contrast the relationships between software development activities and test activities in the software development lifecycle, and explain the difference between SQA and SQC.
- Compare and contrast the differences between manual and automated testing techniques, and their influence on product risk analysis, including accessibility and diversity concepts.
- Learn the difference between static and dynamic techniques, considering objectives, types of defects to be identified, and the role of these techniques within the software lifecycle.
- Explain the characteristics, commonalities, and differences between black-box test techniques, white-box test techniques, and experience-based test techniques

CTA 203 - Technical Communication

3 credit hours - Three hours lecture weekly; one term.

Examine various forms and methods of communication utilized in engineering, scientific, technical, business, and government organizations. Learn the various forms of correspondence, reports, manuals, and proposals. Analyze the specific design and tone of examined documents. Demonstrate various strategies for planning, organizing, designing, and archiving various documents. Learn and apply technical editing and professional communication skills. **Prereq(s):** *CTA 100 or CTP 103 or CTP 115 or CTS 107; and a C or better in ENG 101/ENG 101A or approval of Computer Information Systems program chair.*

Course Outcomes

- Demonstrate the technical writing process, including planning, inventing, drafting, revising, editing, and publishing various documents
- Examine a variety of technical documents and identify the various styles and formats
- Apply document design techniques and incorporate visuals effectively to enhance the communication of ideas and concepts to both technical and non-technical audiences
- Explain the importance of communication processes and skills, critical thinking, and ethical and legal issues in an increasingly digital workplace
- Write for a variety of situations and contexts using Standard English and stylistic options (tone, word choice, sentence patterns, clarity, accessibility, and unity) appropriate for the audience and purpose
- Demonstrate knowledge of paragraph structure, transition, and organization within technical documents
- Recognize and use correctly basic punctuation and grammar
- Give and act on productive feedback to works in progress through engagement in the collaborative and social aspects of writing

CTA 205 - Theory and Troubleshooting Microcomputers 2

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly CTS 203 - Theory and Troubleshooting Microcomputers 2 Examine and configure operating systems including Windows, Linux, Android, and iOS operating systems. Install and maintain Windows operating systems. Implement security features on computer systems and mobile devices. Investigate, analyze, and correct common software problems. Explain common operational procedures within the IT industry. Note: *This course addresses the core material of the CompTIA A+ exam objectives. It is highly recommended students who do not have a working knowledge of computers complete CTA 105 before enrolling in CTA 205.*

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

1. Identify and describe operating systems used in computer systems and mobile devices.
2. Install and configure an operating system.
3. Describe common security threats, vulnerabilities, and best practices for securing devices.
4. Demonstrate troubleshooting techniques for operating systems and applications.
5. Explain safety procedures, controls for environmental issues, and methods for professional behavior.

CTA 208 - Advanced Service Management

3 credit hours - Three hours lecture weekly; one term

Examine the advanced features of Information Technology Service Management (ITSM) activities and the creation of IT services. Integrate different value streams and activities to create, deliver, and support IT-enabled products and services by covering the practices, methods, and tools that support them. Prereq(s): *CTA 108 with a grade of C or better.*

Course Outcomes

1. Develop a plan and build a service value stream to create, deliver and support services.
2. Describe the concepts and challenges related to the service value system and the 'shift-left' approach.
3. Plan and manage resources in the service value system.
4. Implement practices that contribute to the creation, delivery and support across the SVS.
5. Implement the value stream to design, develop and transition new services.
6. Discuss how to coordinate, prioritize work structures and activities to create and deliver support services.

CTA 215 - Management Information Systems

3 credit hours - Three hours lecture weekly; one term

Examine Management Information Systems and the importance of Information Systems in achieving organizational goals. Discuss business, technical, and enterprise components of Management Information Systems (MIS). Compare and classify strategic business

decision-making, business strategy, the role of IT in organizational change and business transformation. Analyze ethics, culture, and globalization in the modern business landscape. Prereq(s): *CTA 100 or CTP 103 or CTP 115 with a grade of C or better; and eligibility for ENG 101/ENG 101A or approval of Computer Information Systems academic chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

1. Explain Management Information Systems (MIS) and their role in business organizations.
2. Discuss Information Systems driven strategic business decision making.
3. Discuss the major trends in MIS and MIS infrastructures, including cloud, big data, ERP, outsourcing.
4. Apply business strategies, technical elements, and enterprise applications to real-world business scenarios.
5. Describe the impact of Information Systems in the larger context of ethics, culture, and globalization in the modern business environment.

CTA 224 - Agile Testing

3 credit hours - Three hours lecture weekly; one term.

Learn the Agile project management philosophy and the associated Scrum methodology for project facilitation. Compare and contrast the skills needed for testing using Agile versus Scrum. Learn to assist business stakeholders in defining testable acceptance criteria; for example, given a user story, write acceptance test-driven development test cases. Perform testing to support an Agile project.

Prereq(s): *CTA 124; and eligibility for ENG 101/ENG 101A.*

Course Outcomes

Examine the Agile software development approach, the advantages of the whole team approach, and the benefits of early and frequent feedback.

Compare and contrast the difference between testing activities in Agile and non-Agile, and the role of independent testing in Agile.

Use different Agile testing methods such as test-driven development, acceptance development, and behavior-driven development.

Assess the quality risks and interpret relevant information to support testing activities.

CTA 275 - Internship Experience in Computer Technologies 1

3 credit hours -

Formerly CSI 275 - Internship Experience in Computer Technologies 1 Earn college credit for an internship that provides the opportunity to apply to an actual work experience the concepts and skills learned across multiple courses in a computer technology program. Students learn how the many different aspects of their program operate in concert. Learn the technical and human factors that are critical in computer technology work environments. Prereq(s): *(1) Successful completion of 12 credit hours of CTA courses; (2) minimum grade point average of 2.5; and (3) permission of CTA department chair prior to enrollment.*

CTA 276 - Internship Experience in Computer Technologies 2

3 credit hours -

Formerly CSI 276 - Internship Experience in Computer Technologies 2 Earn college credit for a second computer technology internship that provides the opportunity to apply to an actual work experience the concepts and skills learned across multiple courses in a computer technology program. Prereq(s): *(1) Successful completion of CTA 275; (2) minimum grade point average of 2.5; and (3) permission of CTA department chair prior to enrollment.*

CTA 280-299 - Special Topics in Computer Technologies

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Formerly CSI 280-299 - Special Topics in Computer Technologies Current or specialized topics in computer technologies. Topics include new programming languages, software development environments, new personal computer application packages and special areas of computer usage such as telecommunications and local area networks. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$5-100. Prereq(s): *Will vary depending on course offering.*

CTP 103 - Theories and Applications of Digital Technology

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly CTA 103 - Theories and Applications of Digital Technology This course meets the Technology Requirement. Demonstrate knowledge of a wide variety of computer technologies including data communications, computer networks, database systems, computer hardware and software, the Internet and Web technologies, operating systems, software development, and information systems. Discuss security, ethics, environmental, and social issues related to digital and emerging technologies. Use hands-on lab experiences to validate knowledge of hardware and software systems. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as CTP 103H; credit is not given for both CTP 103 and any of the following courses: CTP 103H, CTA 100, or CTA 100H.* Note: *This is the first course in computing for students planning to major in a technology field and an excellent choice for students interested in science, engineering and mathematics.* Location(s) Typically Offered: Arnold Main Campus (MC), Off Campus (OF), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Describe the issues related to the ongoing processes of social, political, ethical, and economic change brought about by digital and emerging technologies.

Evaluate the functionality of the hardware and software components of a computer system.

Discuss environmental and security issues related to hardware, software, networks, and information.

Explain the purpose and functions of networks.

Describe the history, services, impact, security, and uses of the Internet.

Explain the process and terminology associated with developing a computer program by applying the structure theorem.

Describe the role and characteristics of information systems in organizations.

Use productivity software to collaborate, solve problems, and present information.

CTP 103H - Theories and Applications of Digital Technology – Honors

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly CTA 103H - Theories and Applications of Digital Technology - Honors --- This is an honors course. This course meets the Technology Requirement. Demonstrate knowledge of a wide variety of computer technologies including data communications, computer networks, database systems, computer hardware and software, the Internet and Web technologies, operating systems, software development, and information systems. Discuss security, ethics, environmental, and social issues related to digital and emerging technologies. Use hands-on lab experiences to validate knowledge of hardware and software systems. Prereq(s): *Eligibility for Honors Courses and ENG 101/ENG 101A*. Crosslisted: *Also offered as CTP 103; credit is not given for both CTP 103H and any of the following courses: CTP 103, CTA 100, or CTA 100H.* Note: *This is the first course in computing for students planning to major in a technology field and an excellent choice for students interested in science, engineering and mathematics.* Location(s) Typically Offered: Arnold Main Campus (MC), Off Campus (OF), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Describe the issues related to the ongoing processes of social, political, ethical, and economic change brought about by digital and emerging technologies.

Evaluate the functionality of the hardware and software components of a computer system.

Discuss environmental and security issues related to hardware, software, networks and information.

Explain the purpose and functions of networks.

Describe the history, services, impact, security, and uses of the Internet.

Explain the process and terminology associated with developing a computer program by applying the structure theorem.

Describe the role and characteristics of information systems in organizations.

Use productivity software to collaborate, solve problems and present information.

CTP 110 - Internet Fundamentals

3 credit hours - Three hours of lecture weekly; one term.

Formerly CSI 127 - Internet Fundamentals Learn concepts, tools, and resources available on the Internet through lectures, classroom demonstrations and supervised lab experiences. Identify characteristics of the Internet, Web browser configuration and operations, Web-based application software, and current and emerging tools for searching and acquiring information from the Internet. Learn website design and construction in HTML. Lab fee \$25. Note: *It is highly recommended that students who do not have a working knowledge of computers complete CTP 103 before enrolling in CTP 110.*

Course Outcomes

Explore the Internet Technology, tools and resources available

- Difference between various kinds of connections to Internet
- Select a suitable connection for business, home user
- Accessing Internet on phones and mobile devices
- How the Internet works
- Difference between various types of IP addresses
- Function of voice over IP
- Find internet connection speed
- Set up Internet email
- Subscribe to listserv and newsgroup
- Search people by name, telephone, address

Design and implement HTML program

- Create a web site with inter-connected web pages using HTML
- Insert hyperlinks in web pages to resources on the Internet (URLs)
- Insert graphics and links to resources on a storage device
- Make use of cascading style sheet (CSS) while developing web pages
- HTML standards specified by W3C coding standards
- embed image as a background
- use text of various sizes
- Use bulleted lists
- Insert table to organize information
- Create navigation bar

Evaluate web pages

- Determine author credentials
- Determine author's knowledge on the subject
- Figure out domain type
- Published by entity that makes sense
- Evidence of bias
- Date created

Browse the Internet

- Difference between directories, search engines/meta-search engines
- Examine strengths/weaknesses of various browser
- Boolean operators
- Advanced searches
- Explore grid and cloud computing

Create documents using Web-based software

- Create a Word compatible document
- Create Excel compatible worksheet
- Create PowerPoint compatible presentation
- Use photo-editing software

CTP 111 - HTML/CSS Programming

3 credit hours - Three hours of lecture weekly; one term.

Formerly CSI 118 - HTML/CSS Programming Learn Hypertext Markup Language (HTML) to create Web documents. Describe the manner in which multimedia hypertext documents are made available using the Web on the Internet. Learn to format text, use multimedia, develop lists, create hyperlinks, construct tables and forms on a Web document and describe XML basics. Lab fee \$25.

Note: The student must be familiar with personal computers before beginning the class; no lecture time is spent introducing personal computer terminology and use.

Course Outcomes

Introduction to the Internet and World Wide Web.

- Describe the evolution of the Internet and the Web.

Explain the need for web standards.
Identify benefits of accessible web design
Identify reliable resources of information on the web
Identify ethical use of the Web.
Describe the purpose of web browsers and web servers
Identify networking protocols
Define URLs and domain names
Describe popular trends in the use of Web

Design web page using basic HTML tags.

Describe HTML, XHTML, and HTML5
Identify the markup language in a web page document.
Use the html, head, body, title, and meta elements to code a template for a web page in a text editor.
Configure the body of a web page with headings, paragraphs, line breaks, divs, lists and blockquotes.
Configure text with phrase elements and special characters.
Use anchor elements to link from page to page
Create absolute, relative, and e-mail hyperlinks
Code, save, test using different web browsers, and display a web page document.

Configure Color and Text using CSS

Describe the evolution of style sheets from print media to the Web.
List advantages of using Cascading Style Sheets.
Configure background and text color on web page.
Create style sheets that configure common color and text properties.
Apply inline styles.
Use embedded style sheets.
Design external style sheets Configure element, class, id and contextual selectors.
Validate CSS using validator.

Design web page using visual elements and graphics.

Create and format lines and borders on Web pages.
Decide when to use graphics and what graphics are appropriate.
Apply the image element to add graphics to Web pages.
Optimize an image for web page display.
Configure images as backgrounds on Web page elements.
Configure images as hyperlinks.
Configure color with CSS
Use HTML element to caption a figure.
Find free and fee-based graphic sources.
Use recommended Web design guidelines when using graphics on Web pages

Explain concepts associated with Web design.

Describe the most common types of Web site organization.
Describe and investigate the principles of visual design.
Design for your target audience.
Design and investigate clear, easy-to-use navigation.
Improve the readability of the text on a web page.
Use graphics appropriately on web pages.
Apply the concept of Universal design to web pages.
Describe web page layout design techniques
Explain best practices of web design.

Design and apply Page Layout.

Describe and apply the CSS Box Model.
Configure margins with CSS.
Configure float with CSS.
Configure relative and absolute positioning with CSS.
Create column page layouts using CSS.
Configure navigation in unordered lists, interactivity to hyperlinks using CSS.

Work with Links, Layout, and Mobile.

Code relative hyperlinks to pages in folders and named fragments.
Configure images using CSS sprites.

- Configure CSS for printing.
- Configure CSS for mobile display.
- Utilize CSS media queries to target mobile devices.

Implement Tables on a web page.

- Create a table on a web page.
- Apply attributes to format tables, table rows, and table cells.
- Increase the accessibility of a table.
- Style an HTML table with CSS.

Create Forms on web pages.

- Describe common uses of forms on web pages.
- Create forms on web pages using the form, input, textarea, and select elements.
- Create forms to provide additional accessibility feature using the accesskey and tabindex.
- Associate form controls and groups using label, fieldset and legend elements.
- Create custom image buttons and use the button element.
- Use CSS to style a form.

Apply Multimedia and Interactivity to web pages

- Describe the purpose of plug-ins, helper applications, media container, and codecs.
- Describe the types of multimedia files used on the Web.
- Configure hyperlinks to multimedia files.
- Apply the object element to display Adobe Flash multimedia on a web page.
- Configure audio and video on a web page.
- Describe features and common uses of Flash, Java applets, JavaScript and Ajax.
- Configure a Flash animation on a web page.
- Configure a Java applet on a web page.
- Create an interactive image gallery with CSS.
- Configure the CSS transform and transition properties.
- Describe the purpose of the HTML canvas element.
- Locate Flash, Java applets, JavaScript, and Ajax resources on the Web.

Create web pages using JavaScript

- Describe common uses of JavaScript in Web pages.
- Describe the purpose of the Document Object Model and list some common events.
- Create simple JavaScript using script element and the alert() method.
- Distinguish variables, operators and the if control structure.
- Create a basic form validation script.

CTP 112 - Mobile Web Development

3 credit hours - Three hours of lecture and directed laboratory weekly; one term.

Formerly CSI 119 - Mobile Web Development Learn how to develop Web content for the mobile Web environment. Build websites that function on a variety of devices including smartphones, tablets and other mobile devices. Learn standards, best practices and development techniques for building Web pages delivered to mobile devices. Lab fee \$25. Prereq(s): CTP 111 or permission of the CTP department chair.

Course Outcomes

Describe the mobile web environment.

- Define mobile device categories.
- Describe the mobile platform.
- Compare and contrast mobile and desktop web environment.
- Identify interactive development environments for mobile development.
- Identify various mobile web browsers.

Design a web site for mobile devices.

- Describe the restrictions of a mobile application.
- Describe device differences.
- Design a mobile web application home page.
- Design a mobile web application secondary page.
- Discuss style considerations for pages.

Describe navigation techniques.

Use mobile markup language to build a web site for mobile devices.

Compare various mobile markup languages.

Use XHTML to develop a mobile web application

Use CSS to format a mobile web application.

Describe the use of JavaScript and jQuery.

Identify other technologies used in mobile web applications.

Use images and multimedia.

Use images on a mobile web application.

Optimizing audio for the mobile environment.

Adding video to a mobile web application.

Use social media.

Describe mobile advertising.

Interact with text messaging.

Connect using short codes and QR codes.

Link to YouTube, Facebook, and Twitter.

Use device features from a web application.

Use geolocation features.

Identify rotation and device orientation.

Describe touch gesture interfaces.

Access data offline.

Optimize a mobile web application.

Optimize for low bandwidth.

Choose the best format for images.

Resize graphics and photos.

Optimize images for mobile delivery.

Testing a mobile web application.

Install mobile add-ons to browsers.

Use a mobile web emulator.

CTP 114 - Python for Everyone

2 credit hours - Two hours of lecture and directed laboratory weekly; one term.

Learn Python variables and expressions and built-in Python functions. Design and implement functions. Learn decision and repetition control structures in Python. Work with Python data structures such as strings, lists, tuples and sets. Learn to read and write to external files. This course is intended for students who have not declared Computer Science as a major. Lab fee \$25. Prereq(s): *Eligibility for any credit MAT and eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Write basic Python programs

Use built-in Python functions

Read and understand Python documentation

CTP 115 - Introductory Object-Oriented Program Analysis and Design

4 credit hours - Four hours of lecture and directed laboratory weekly; one term. Formerly CSI 117 - Introductory Object-Oriented Program Analysis and Design This course meets the Technology Requirement. Learn analysis and design problem-solving techniques to prepare for programming in any language. Learn about object-oriented design, development and related security techniques.

Analyze specifications, use design tools such as pseudocode and Unified Modeling language (UML) diagrams to develop classes and objects, consider examples of common program designs, and implement object-oriented designs in a high-level language. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as CTP 115H. Credit is not given for both CTP 115 and CTP 115H.*

Note: *It is highly recommended that students who do not have a working knowledge of computers complete CTP 103 before enrolling in CTP 115. Students with UML and Object Oriented Programming experience should contact the computer science department chair before selecting this course.* Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

- Analyze a problem for implementation on a computer
- Design software using object-oriented design methods
- Describe the control structures used in designing computer programs
- Design algorithms using the three basic control structures
- Explain concepts associated with object-oriented design
- Test algorithms using desk checking
- Work as a member of a team to design computer programs
- Implement an algorithm using an object-oriented high-level programming language
- Demonstrate computing and information technology competency

CTP 115H - Introductory Object-Oriented Program Analysis and Design-Honors

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

This is an honors course. This course meets the Technology Requirement. Learn analysis and design problem-solving techniques to prepare for programming in any language. Learn about object-oriented design, development and related security techniques. Analyze specifications, use design tools such as pseudocode and Unified Modeling language (UML) diagrams to develop classes and objects, consider examples of common program designs, and implement object-oriented designs in a high-level language. Prereq(s): *Eligibility for ENG 101/ENG 101A and eligibility for Honors courses.* Crosslisted: *Also offered as CTP 115. Credit is not given for both CTP 115 and CTP 115H.* Note: *It is highly recommended that students who do not have a working knowledge of computers complete CTP 103 before enrolling in CTP 115H. Students with UML and Object Oriented Programming experience should contact the Computer Science department chair before selecting this course.* Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

- Analyze a problem for implementation on a computer
- Design software using object-oriented design methods
- Describe the control structures used in designing computer programs
- Design algorithms using the three basic control structures
- Explain concepts associated with object-oriented design
- Test algorithms using desk checking
- Work as a member of a team to design computer programs
- Implement an algorithm using an object-oriented high-level programming language
- Demonstrate computing and information technology competency

CTP 118 - Web Development using HTML/CSS

4 credit hours - Four hours of lecture weekly; one term

Learn how to develop Web content for a variety of environments using Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS). Learn to format text, develop lists, create hyperlinks, construct tables, and forms on a Web document. Describe styling for the mobile Web, use of multimedia, and interactivity. Learn introductory JavaScript concepts. Note: *The student must be familiar with personal computers before beginning the class; no lecture time is spent introducing personal computer terminology and use. CTP 103 can be taken to fulfill this requirement. Credit is not given for both CTP 118 and CTP 111 or CTP 118 and CTP 112.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Summarize the form and use of the Internet and the World Wide Web
- Create a web document using HTML/CSS
- Develop a web site
- Use JavaScript to add interactive behavior to web pages

CTP 120 - Introduction to WWW Publishing

3 credit hours - Three hours of lecture weekly; one term.

Formerly CSI 128 - Introduction to WWW Publishing Learn how to create WWW documents using Graphical User Interface soft-ware

and how multimedia hypertext documents are made available using the World Wide Web (WWW) on the Internet. Create and manage WWW sites such as those used by an individual or small business. Lab fee \$40. Note: *Students must be familiar with personal computers before beginning the class because no lecture time is spent introducing personal computer terminology and use. Students with no prior Internet experience are encouraged to take CTP 110 Internet Fundamentals before taking this course.*

Course Outcomes

Describe the process by which web sites are planned, created, and maintained

- Explore Dreamweaver Workplace
- View a Web Page and Use Help
- Learn the Dreamweaver workspace
- Demonstrate the ability to use Dreamweaver Tools
- Add a Folder And Pages

Create pages for the WWW using web site construction software

- Create Head Page and Set Page
- Create, Import, and Format Text
- Add Links to Web Pages
- Use the History Panel and Edit Code
- Add a Folder and Pages

Design easy to use navigation structures for a web site

- Create external and internal links
- Create internal links to named anchors
- Create, modify, and copy a Spry menu bar
- Create an image map
- Manage website links
- Incorporate Web 2.0 technology

Design WWW pages with effective typographic and graphical elements

- Create Unordered and Ordered Lists
- Insert and Align Graphics
- Enhance an Image and Use Alternative Text
- Add Rules and Attach Cascading Style Sheets
- Create, Apply, and Edit Cascading Style Sheets
- Enhance a background Image and Perform Site
- Add Graphic Enhancements

Create interactive WWW pages employing forms, JQuery, and JavaScript elements

- Collecting Data with Forms
- Test and Process a Form
- Work with Form Objects
- Plan and Create a Form
- Adding Media Objects and Interactivity With Flash and Spry
- Add and Modify Flash Objects
- Add Rollover images
- Add Behaviors

Design, create, and place on-line a web site such as that used by a small business or non-profit organization

- Managing a Web Server and Files
- Explain the concept of Web Maintenance
- Publish a Web Site

CTP 130 - Programming in PHP/MySQL

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 138 - Programming in PHP/MySQL Use fundamental design principles and problem-solving techniques introduced in CTP 115 to develop Web applications using PHP server-side scripting language and the MySQL relational database management system. Participate in hands-on activities to learn topics that include Web application concepts and environments, PHP language structure, relational database concepts, and techniques to develop Web applications that include database management systems and user interaction. Prereq(s): *CTP 115 and CTP 118 or permission of CTP department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Use Client/Server architecture.
- Use Client-Side Scripting.
- Use Server-Side Scripting.
- Install a Web Server.
- Install PHP.
- Install MySQL.
- Test a Web development environment.
- Structure a PHP Script.
- Use data types.
- Use operators.
- Use control structures.
- Write functions.
- Use strings in PHP scripts.
- Use arrays.
- Work With files.
- Use relational database concepts.
- Use Structured Query Language.
- Use a MySQL Database.
- Manage user accounts.
- Manage databases, tables and records.
- Connect to a database.
- Execute SQL Commands.
- Add, delete, and update records.
- Use cookies to preserve state.
- Use sessions to preserve state.
- Use encapsulation and classes.
- Define and use PHP classes.
- Use syntax, logic, and run-time errors.
- Use reporting errors.
- Apply common debugging techniques.

CTP 135 - Programming in JavaScript and jQuery

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Learn JavaScript and jQuery languages through lecture and hands-on directed lab activities. Develop programming skills to create interactive Web pages. Learn to manipulate the browser environment, add special effects, validate form data, and manage state information. Learn to access server-side data using AJAX. Prereq(s): *CTP 115 and CTP 118 or permission of CTP academic chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Use jQuery to access and make changes to DOM elements dynamically.
- Design mobilized, multimedia web pages using client-side JavaScript and event-driven components.
- Exchange information with a back-end server.

CTP 136 – jQuery

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Develop interactive Web pages using jQuery. Use the core jQuery library and jQuery User Interface (UI) library to improve usability and presentation. Add interactivity to websites without complex JavaScript coding. Explore other JavaScript libraries, frameworks, and plugins. Lab fee \$25. Prereq(s): *CTP 135 or permission of CTP department chair.* Note: *Students seeking to complete CTP 136 after Spring 2022 should select a substitution with the assistance of the CTP department.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Make changes to web documents with jQuery
Access elements of web documents using jQuery
Create animations on web documents with jQuery
Retrieve information from a server using jQuery
Use JavaScript frameworks for DOM manipulation.

CTP 140 - Database Foundations, SQL/NoSQL

3 credit hours - Three hours of lecture and directed laboratory weekly; one term.

Learn database fundamentals while working with both relational (SQL) and non-relational (NoSQL) architectures. Learn to create, update, delete, and retrieve data from a traditional relational database using SQL as well as non-relational databases using NoSQL. Lab fee \$25. Note: *The student must be familiar with personal computers before beginning the class; no lecture time is spent introducing personal computer terminology and use. CTP 103 can be taken to introduce general computer skills.*

Course Outcomes

Describe how databases are used to store and retrieve data.
Describe the differences between relational and non-relational databases.
Implement Create, Read, Update, and Delete (CRUD) operations in both relational and non-relational databases.

CTP 145 - Relational Databases and SQL

4 credit hours - Four hours of lecture / directed laboratory weekly; one term.

Formerly CSI 172 - Relational Databases and SQL Learn the fundamental concepts of database systems including design, implementation, and security using Oracle. Learn to create a database, build various database objects, and manipulate data using the structured query language (SQL). Use this universal database programming language to write simple and complex queries to retrieve, insert, update, delete, and filter information in the database. This course is the first in the series of Oracle database administration courses and addresses the core material of both the SQL Fundamentals and the SQL Expert certification exams needed to become an Oracle Certified Associate. Prereq(s): *CTP 103 or permission of the CTP department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Describe relational database concepts and develop logical database designs

Define database terms
Identify the purpose of a database management system (DBMS)
Explain database design by using entity-relationship models and normalization
Explain the purpose of a Structured Query Language (SQL)

Construct queries that aggregate, express, and examine data in the database

Identify keywords, mandatory clauses, and optional clauses in a SELECT statement
Use a WHERE clause to restrict the rows returned by a query
Identify and create a variety of joins
Use single-row and multiple-row functions to manipulate data
Determine when to use the GROUP BY and HAVING clauses should be used
Perform enhanced aggregation grouping with GROUPING SETS, CUBE, and ROLLUP
Use single-row and multiple-row subqueries
Nest a subquery inside another subquery
Process multiple DML actions with a MERGE statement

Develop DDL commands to create and maintain tables in the database

Create a new table with the CREATE TABLE command
Modify the definition of an existing table
Rename a table
Truncate a table
Drop a table

Develop DML commands to manipulate the data in the database

Use the INSERT command to add a record to an existing table
Use the UPDATE command to modify a table's existing rows
Delete records

Manage transactions with the transaction control commands COMMIT, ROLLBACK, and SAVEPOINT

Discuss security issues and employ privileges and views to enhance security

Explain the concept of data security

Grant and revoke privileges to a user

Create a view, using the CREATE VIEW command or the CREATE OR REPLACE VIEW command

Drop a view

Evaluate and create other database objects to improve the integrity and performance of the database

Define the purpose of a sequence and explain how it can be used in a database

Explain the main index structures

Describe variations on conventional indexes, including a function-based index and an index organized table

Create and remove a synonym

Distinguish among PRIMARY KEY, FOREIGN KEY, UNIQUE, CHECK, and NOT NULL constraints and understand the appropriate use for each constraint

Describe various non-traditional database designs

Define a distributed database management system (DDBMS) and what its components are.

Define a data warehouse.

Discuss the importance of NoSQL.

Develop types to be used in an Object-Oriented database

Describe the difference between the relational, hierarchical, and network database models

Incorporate SQL editor techniques

Learn the historical importance of SQL*Plus

Learn to run SQL statements from SQL Developer

CTP 147 - PL-SQL Programming

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 182 - PL-SQL Programming Learn the principles of database programming using PL/SQL language to access and manipulate data in a database. Learn stored procedures, functions, packages and database triggers. Learn key skills required for declaring variables and trapping exceptions. This course is the second in the series of Oracle database administration courses. Lab fee \$35. Prereq(s): CTP 145 with a grade of C or better or permission of the CTP department chair. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Introduction to PL/SQL

Create PL/SQL program blocks

Identify and use appropriate programming constructs to fulfill application logic needs

Basic PL/SQL Blocks

Create PL/SQL program blocks

Identify and use appropriate programming constructs to fulfill application logic needs

Handling Data in PL/SQL

Create PL/SQL program blocks

Identify and use appropriate programming constructs to fulfill application logic needs

Manipulate database tables using PL/SQL programming

Use Oracle-supplied packages in PL/SQL program units

Cursors and Exceptions

Create PL/SQL program blocks

Identify and use appropriate programming constructs to fulfill application logic needs

Manipulate database tables using PL/SQL programming

Build error trapping facilities within PL/SQL programs

Procedures

Create PL/SQL program blocks

Identify and use appropriate programming constructs to fulfill application logic needs

Manipulate database tables using PL/SQL programming

Create PL/SQL program units including: procedures, functions, triggers, and packages

Use Oracle-supplied packages in PL/SQL program units

Functions

Create PL/SQL program blocks
Identify and use appropriate programming constructs to fulfill application logic needs
Manipulate database tables using PL/SQL programming
Create PL/SQL program units including: procedures, functions, triggers, and packages
Use Oracle-supplied packages in PL/SQL program units

Packages

Create PL/SQL program blocks
Identify and use appropriate programming constructs to fulfill application logic needs
Manipulate database tables using PL/SQL programming
Create PL/SQL program units including: procedures, functions, triggers, and packages
Use Oracle-supplied packages in PL/SQL program units

Dependencies

Create PL/SQL program blocks
Identify and use appropriate programming constructs to fulfill application logic needs
Create PL/SQL program units including: procedures, functions, triggers, and packages
Use Oracle-supplied packages in PL/SQL program units

Triggers

Create PL/SQL program blocks
Identify and use appropriate programming constructs to fulfill application logic needs
Manipulate database tables using PL/SQL programming
Build error trapping facilities within PL/SQL programs
Create PL/SQL program units including: procedures, functions, triggers, and packages
Use Oracle-supplied packages in PL/SQL program units

SQL *Loader

Create PL/SQL program blocks
Identify and use appropriate programming constructs to fulfill application logic needs
Load data into Oracle tables from external files using the SQL*Loader utility

Dynamic SQL

Create PL/SQL program blocks
Identify and use appropriate programming constructs to fulfill application logic needs
Manipulate database tables using PL/SQL programming
Identify uses of dynamic SQL and object technology

CTP 150 - Computer Science 1

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 163 - Computer Science 1 Use fundamental design principles and problem-solving techniques introduced in CTP 115 to develop computer algorithms. Implement algorithms as programs coded in Java, an object-oriented programming language. Learn the data types, control structures, classes, arrays, and I/O in the Java programming language. Learn recursion, inheritance, polymorphism, and exceptions. Emphasize style, documentation, solution robustness, and conformance with specifications throughout course work. Prereq(s): *CTP 115 or CTP 115H or permission of computer science academic chair.* Crosslisted: *Also offered as CTP 150H. Credit is not given for both CTP 150 and CTP 150H. Note: CTP 115 prerequisite is waived for students that complete AP Computer Science. Credit is not given for both CTP 150 and CSI 161 or CSI 162.* Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Apply the fundamental programming constructs to create an object-oriented solution to a programming problem.
Describe and implement the usage of software tools and programming environments.
Apply and execute software validation techniques.
Explain and discuss professional and ethical responsibilities.

CTP 150H - Computer Science 1-Honors

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

This is an honors course. Use fundamental design principles and problem-solving techniques introduced in CTP 115 to develop computer algorithms. Implement algorithms as programs coded in Java, an object-oriented programming language. Learn the data types, control structures, classes, arrays, and I/O in the Java programming language. Learn graphical user interfaces, inheritance,

polymorphism, recursion, and exceptions. Emphasize style, documentation, solution robustness, and conformance with specifications throughout course work. Prereq or Coreq: *CTP 115 or CTP 115H and eligibility for Honors courses or permission of computer science department chair*. Crosslisted: *Also offered as CTP 150*. Credit is not given for both *CTP 150* and *CTP 150H*. Note: *CTP 115 prerequisite is waived for students who complete AP Computer Science*. Credit is not given for both *CTP 150* and *CSI 161* or *CSI 162*. Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Apply the fundamental programming constructs to create a solution to a programming problem.

- Correctly use basic syntax and semantics of a higher-level language.
- Understand and describe variables, types, expressions, and assignment.
- Write a computer program that will use console input and output.
- Use and describe conditional and iterative control structures.
- Use and describe functions and parameter passing.

Apply problem solving techniques to create robust algorithms.

- Understand the role of algorithms in the problem-solving process
- Formulate precise specifications for a problem and its solution
- Create modular designs of problem solutions
- Understand and use preconditions and post-conditions
- Apply debugging strategies

Understand and use fundamental data structures.

- Understand and apply primitive types
- Understand and apply reference types
- Understand and apply strings and string processing
- Understand and apply arrays and array processing
- Understand and describe data representation in memory

Understand and describe the evolution of programming languages.

- Describe the history of programming languages
- Survey programming paradigms to include procedural languages and object-oriented languages
- Understand the effects of scale on programming methodology

Perform identifier declarations and appropriate data types.

- Understand the concept of types as a set of values together with a set of operations
- Understand the appropriate declaration models (scope, static and non-static data)
- Describe type checking
- Describe garbage collection

Create computer programs using Object-Oriented Design techniques.

- Understand and describe the model-view-control design pattern
- Understand and code correctly collaboration among classes
- Understand and code correctly relationships between classes (is-a, has-a)
- Understand and design programs using appropriate class hierarchies.

Understand and apply Object-Oriented Concepts.

- Define and use correctly user-defined classes
- Define and use built in classes
- Define and use classes from the API
- Define and use correctly encapsulation and information hiding
- Define identity, state and behavior
- Define and use inheritance and polymorphism
- Understand Java Database Connectivity

Understand and use software tools and programming environments.

- Use effectively these features of an Integrated Development Environments (IDEs): Editors, Compilers, Debuggers and tracing techniques
- Use correctly Unified Modeling Language (UML) tools
- Discuss software installation and setup procedures

Apply Software Validation techniques.

- Design a software validation plan

Use black-box and white-box testing techniques
Perform unit integration validation and system testing

Discuss Professional and Ethical Responsibilities.

Discuss acceptable use policies for computing in the workplace
Discuss codes of ethics, conduct, and practice (IEEE, ACM, etc)

Create a Graphical User Interface.

Create Windows
Create Frames
Create Buttons and ActionListeners
Create Labels and TextFields

CTP 160 – Python

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Develop computer programs in the Python programming language using fundamental design principles and problem-solving techniques. Learn data types, control structures, classes, multithreading, client/server programming, data structures to organize and manipulate data, and I/O in the Python programming language. Learn to apply Python to computer security topics. Emphasize style, documentation, solution robustness, and conformance with specifications throughout course work. Prereq(s): *CTP 115 or CTP 115H or permission of computer science department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Implement algorithms in Python
Use standard programming constructs to solve programming problems in Python
Write Python programs that implement I/O concepts
Use the object-oriented design paradigm to develop Python programs
Use Python to implement secure programming solutions

CTP 194 - Ethics and the Information Age

3 credit hours - Three hours weekly; one term.

Formerly CTA 194 - Ethics and the Information Age This course meets the Arts & Humanities General Education Requirement. Analyze ethics and moral philosophy as a means for providing a framework for ethically grounded decision making in the information age. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as CTP 194H, PHL 194H, PHL 194; credit is not given for both CTP 194 and any of the following courses: CTP 194H, PHL 194H, PHL 194.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Explain concepts and theories behind establishing a moral system and ethical judgement.
Apply ethical aspects to issues in computer and data security.
Analyze issues involving privacy and personal autonomy.
Extrapolate the concept of intellectual property to cyberspace.
Appraise implications of the information age on community, social justice, and the public interest.
Evaluate existing codes of professional conduct in the computer technology industry.

CTP 194H - Ethics and the Information Age – Honors

3 credit hours - Three hours weekly; one term.

Formerly CTA 194H - Ethics and the Information Age - Honors This is an honors course. This course meets the Arts & Humanities General Education Requirement. Analyze ethics and moral philosophy as a means for providing a framework for ethically grounded decision making in the information age. Prereq(s): *Eligibility for honors courses and ENG 101/ENG 101A.* Crosslisted: *Also offered as CTP 194, PHL 194H, PHL 194; credit is not given for both CTP 194 and any of the following courses: CTP 194, PHL 194H, PHL 194.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Explain concepts and theories behind establishing a moral system and ethical judgement.
 Apply ethical aspects to issues in computer and data security.
 Analyze issues involving privacy and personal autonomy.
 Extrapolate the concept of intellectual property to cyberspace.
 Appraise implications of the information age on community, social justice, and the public interest.
 Evaluate existing codes of professional conduct in the computer technology industry.

CTP 200 - Systems Analysis and Design

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CTS 200 - Systems Analysis and Design Learn systems development life cycle (SDLC) presented from a business process view. Analyze and design basic database systems by incorporating problem-solving techniques used in developing business computer information systems. Learn Enterprise Systems (ES), integrated business application packages used for controlling and tracking business operations with one centralized Relational Database Management system(RDMS). Use hands-on lab experience to incorporate knowledge of the project management software package. Prereq(s): CTA 100, CTP 103, or CTP 115. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Perform analysis of current systems with regard to:
 - Logical system design
 - Physical system design
 - Program development
 - Testing
 - Implementation
 - Maintenance
 - Documentation
- Define the impact of information technology on a system
- Communicate the global marketplace impact on current system
- Explain the information system components
- Identify the components of hardware, software, data, procedures and people
- Document the impact of the Internet
- Describe how businesses use information systems
- Determine information systems users and their needs
- List and easily communicate and implement the 5 phases of the systems development life cycle
- Understand the role of the systems analyst
- Explore, and use tools to comprehend and implement phase I of SDLC - the **Systems Planning Phase**
 - Define and document the Business Case
 - Document and Implement the systems request
 - Learn to create, through strategic planning, a framework of a project
 - Use software to start the production of business and information systems projects
 - Learn the evaluation process of systems requests
 - Be able to distinguish the overview of system feasibility
 - Define the four types of system feasibilities
 - Determine the process of setting priorities
- Explore, and use tools to comprehend and implement phase II of SDLC - the **Systems Analysis Phase**
 - Perform requirements modeling
 - Perform enterprise modeling
 - Discuss development strategies
- Explore, and use tools to comprehend and implement phase III of SDLC - the **Systems Design Phase**
 - Understand, document and be able to design data concepts including the user interface, input, output and the system architecture.
- Explore, and use tools to comprehend and implement phase IV of SDLC - **System implementation**
 - Design an application using program design paradigms.
 - Understand, document and be able to design user documentation including how to use an application.
 - Document the types of implementation and use tools to project completion of tasks and what to do if tasks are not going to be completed on schedule.

- Create and implement a system test plan.
- Explore, and use tools to comprehend and implement phase V of the SDLC - **Systems Operation and Security**
- Comprehend and document Disaster Recovery Plans for the new System.
- Document changes and upgrade changes after the system is implemented.
- Design user support activities and user training.
- Develop system performance management plan.

CTP 210 - Statistical Programming Using R

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Install and configure the statistical programming environment. Read data into R, access R packages, write and use R functions, and organize and comment R code. Apply statistical computing in the R programming language. Lab fee \$25. Prereq(s): *CTP 160 and either MAT 135, MAT 223, MAT 235, or ECO 232; or permission of Computer Science Academic Chair.*

Course Outcomes

- Obtain and evaluate input including file I/O
- Describe and use data types and subset R objects
- Analyze and solve problems using control structures
- Define and use functions on scoping rules, dates and times, R loop, and debugging
- Simulate random number and linear model, and use R profiler
- Describe the basic ways of collecting and sharing data, and basic exploratory techniques for summarizing data
- Obtain hands-on experience through R programming

CTP 214 - Data Visualization and Data Wrangling

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term

Explore data wrangling from widely used data formats and sources (like web pages, tweets, PDF files) and shape it to enable data-driven decisions. Learn to assess the quality of data and explore best practices for data cleaning. Lab fee \$25. Prereq(s): *CTP 210.*

Course Outcomes

- Extract data from existing data sets
- Use data manipulations to change format for analysis
- Create charts and graphs to visualize data

CTP 215 - Access Visual Basic Applications (VBA) Programming

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 222 - Access Visual Basic Applications (VBA) Programming Design, develop, implement and maintain customized database applications in a microcomputer environment. Create menu interfaces using multiple tables, query the database, and generate customized reports. Develop event-driven program code using programming elements such as variables, conditions, loops, conversions, formatting, data structures, procedures, SQL, macros, object-oriented programming, ADO (ActiveX Data Objects) and error handling. Lab fee \$25. Prereq(s): *CTP 115 and CTA 115 or permission of the CTP department chair.*

Course Outcomes

Develop a Database Consisting of Tables, Queries, Forms, Reports, and Macros

- Review the Development of Tables, Queries, Forms, Reports, and Macros
- Create tables, queries, forms, reports, and macros

Program Using Variables, Constants, & Data Types

- Demonstrate the Use of Projects, Properties, and Naming Conventions

Use Modules, Functions, Subroutines, Events, Objects, and Dialog Boxes

- Write Events Using Event-Driven Programming
- Enhance the User Interface
- Create VBA Modules, Functions, and Subroutines
- Write, Debug, and Maintain Applications

Write Structured Query Language (SQL) Scripting

- Write SQL (Structured Query Language) Scripting

Create Code Using ActiveX Data Objects (ADO) and Object Oriented Programming

Write Code to Program with ADO (ActiveX Data Objects)

Demonstrate Using Basic Object-Oriented Programming: custom objects and collections

CTP 220 - Content Management Systems

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term. Learn to plan and design websites using popular content management systems (CMS) such as WordPress, Drupal, or Joomla. Use development skills in PHP to add functionality to web sites. Prereq(s): *CTP 135 and CTP 130, or permission of Computer Science department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Create a website
- Configure a website
- Manage a website

CTP 227 - Web Server Administration

3 credit hours - Three hours of lecture weekly; one term.

Formerly CSI 227 - Web Server Administration Install, configure, populate, monitor and troubleshoot both IIS and Apache servers. Covers the fundamentals of Web server administration including: standard configurations, traffic log analysis, techniques for virtual hosting, performance analysis, password protection of select Web pages, and how to work with hosting services (ISPs). Course includes an overview of how the Web works in the context of the Internet, covering important protocols, host and service addressing and naming services (DNS). Lab fee \$40.

CTP 230 - Android Programming

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term

Formerly CSI 230 - Android Programming Learn to develop applications for the Google Android platform. Use object-oriented programming techniques to design and create mobile applications for Android devices. Utilize the Android development environment and work with the Android user interface, data persistence, content providers, messaging, networking and services. Prereq(s): *CSI 161 or CTP 150, or permission of the CTP department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Discuss the mobile computing environment and Android's place in that market.

- Describe how Android compares to other mobile environments.
- Describe the features of the Android platform.
- List the current versions of Android.

Set up the Android development environment.

- List the components of the Android SDK.
- Install the Android SDK.
- Configure the development tools.
- Discuss the context and structure of an Android application.
- Utilize an emulator for testing Android applications.

Develop a user interface for an Android application.

- Discuss general user interface strategies for mobile devices.
- Utilize the components of the screen.
- Apply multimedia in an application.
- Create a user interface programmatically.
- Discuss activities and intents.
- List the standard view layouts.
- Apply a menu to an application

Use files and databases for data persistence in an Android application.

- Save and restore user preferences.
- Use internal storage.
- Use external storage.

Create and use a database.

Use content providers in an Android application.

Describe data sharing in the Android environment.

Retrieve data using a content provider.

Create a content provider.

Use messaging and networking in an Android application.

Send and receive SMS messages.

Send and receive an eMail message.

Download data and files.

Access web services.

Apply location-based services in an Android application.

Retrieve location data.

Display maps.

Use geolocation services.

Discuss publishing an Android application.

Describe the Android market.

Describe the Android market.

Discuss deploying an application on a physical device.

CTP 232 - iPad/iPhone iOS Programming 1

4 credit hours - Four hours of lecture and directed laboratory weekly; one term. Formerly CSI 232 - iPad/iPhone iOS Programming 1

Learn the fundamental technologies to develop applications for iOS devices such as the iPhone and the iPad through directed lab activities. Learn the fundamental activities involved in using the XCode development environment, Interface Builder and Cocoa Touch to analyze, develop, test and deploy working applications for the iOS environment. Prereq(s): *CTP 150 or CSI 161 or permission of the CTP department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Develop applications for the iPad and iPhone using the iOS programming environment.

Use SwiftUI features in the development of iPad/iPhone applications.

Develop applications using the Model-View-Controller design pattern.

Demonstrate the use of the iOS User Interface.

Demonstrate the use of SwiftUI as both a declarative and data driven language.

Describe the components of the iOS documentation.

CTP 233 - iPad/iPhone iOS Programming 2

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 233 - iPad/iPhone iOS Programming 2 Learn advanced technologies used in developing applications for iOS devices such as the iPhone and the iPad through lecture and lab activities. Learn the techniques involved in using many advanced features such as Core Data, SQLite, Web Services, and Push Notifications to analyze, develop, test, and deploy advanced working applications for the iOS environment. Lab fee \$35. Prereq(s): *CTP 232 or permission of the CTP department chair.*

CTP 235 - Advanced World Wide Web Server-Side Development

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 248 - Advanced World Wide Web Server-Side Development Learn the fundamental technologies for development of applications on the World Wide Web through directed lab activities. Learn to analyze, design, develop, test and field a working solution for an Internet-based application using Java Servlets, Java Server Pages, MySQL, HTML, Java and JavaScript. Explore advanced security topics in the PHP scripting language. Lab fee \$25. Prereq(s): *CTP 130 and CTP 135 and any one of the following: CSI 161, CTP 150 or permission of the CTP department chair.*

Course Outcomes

Demonstrate an understanding of basic Java Server Pages concepts

Demonstrate an understanding of basic JSP syntax

Demonstrate an understanding of the JSP container (Tomcat)

Demonstrate an understanding the Request and Response implicit objects

Demonstrate an understanding debugging a JSP application

Demonstrate an understanding of basic Java Servlet concepts

Demonstrate an understanding of the Web Application Structure

Demonstrate an understanding of the MVC Model

Demonstrate an understanding of the Deployment Descriptor

Demonstrate an understanding of a Simple Servlet

Demonstrate an understanding of advanced Java Server Pages concepts

Demonstrate an understanding of Scripting Elements

Demonstrate an understanding of Applications

Demonstrate an understanding of Cookies

Demonstrate an understanding of Sessions

Demonstrate an understanding of Database Access

Demonstrate an understanding of advanced JSP/Java Servlet concepts

Demonstrate an understanding of parameters

Demonstrate an understanding of a complete JSP/Servlet Application

Develop, test and deploy a complex, sophisticated, data driven Web application using a MySQL database, Java Server Pages, Java Servlets, HTML, JavaScript and CSS

Demonstrate an understanding of the integration of several distinct tools into a single cohesive solution

CTP 236 - Advanced JavaScript

3 credit hours - Three hours of lecture and directed laboratory weekly; one term.

Learn advanced JavaScript skills through lecture and hands-on lab activities. Use a JavaScript framework such as React to create dynamic web pages that interact with a web server. Prereq(s): CTP 135. Location(s) Typically Offered: Online (OL) Term(s)

Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Set up a development environment

Create dynamic web applications using JavaScript frameworks

Interact with a back-end web server

Manage state in an application

Use routing to support navigation

CTP 237 - Server-Side Development

3 credit hours - Three hours of lecture and directed laboratory weekly; one term.

Learn the fundamentals of back-end application development to create server-side web applications and services. Build server-side Application Program Interfaces (API) which respond to requests, authenticate users, and interact with data in a database. Lab fee \$25.

Prereq(s): CTP 236 Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Build server-side web applications and services with Node.js and Express.

Incorporate databases like MongoDB and MySQL.

Authenticate users.

Build RESTful API endpoints.

CTP 245 - Database Administration 1

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 224 - Database Administration 1

Learn how to install and maintain an Oracle database. This course includes the architecture of a Database Management System using Oracle as the example. Investigate issues related to database security, user management, performance monitoring, and data concurrency with structured hands-on exercises. This course is the third in the series of the Oracle administration courses. This course addresses the core material of the Oracle Certified Associate exam objective. Prereq(s): CTP 145 with a grade of C or better or permission of the CTP department chair. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Install the Oracle database software

- Distinguish between installation methods and delivery platforms
- Distinguish between installation methods and delivery platforms
- Install software using the OUI
- Create a database using the DBCA
- Generate database creation SCRIPTS with the DBCA

Manage an Oracle DB Instance

- Start and Stop the database components
- Access a database with SQL*Plus
- Access a database with Interactive-SQL*Plus (iSQL)
- Modify database initialization parameters
- View the Alert Log
- Use the Data Dictionary to view database elements

Manage Database Storage Structures

- Describe the record layout of the table storage (blocks)
- Define the purpose of tablespaces
- Define the purpose of tablespaces
- Create a tablespace
- Obtain information about an existing tablespace
- Describe the functionality of the ASM (Automatic Storage Manager)

Administer User Security

- Create database user accounts
- Assign default storage areas to users
- Grant privileges
- Revoke privileges
- Manage roles
- Manage profiles
- Implement standard password security

Manage Schema Objects

- Implement standard password security
- Create tables
- Define constraints
- View the columns of a table
- View the contents of a table
- Explain when indexes should be placed on tables
- Create indexes on tables
- Choose when to use temporary tables
- Manage Data Concurrency
- Manage Data Concurrency

Implement Database security

- Describe the responsibilities of a DBA concerning securing the database
- Apply the principle of "least privilege"
- Enable auditing on a database
- Specify audit options
- Maintain an audit trail on a database

Configure the Network Environment

- Use the Enterprise Manager for configuring a network
- Create additional network LISTENER instances
- Configure connect-time failover
- Test connectivity to a database over a network
- Analyze statistics to determine if proactive maintenance is necessary
- Set ALERT thresholds

Manage the performance of a database

- Use the Enterprise Manager to monitor performance
- Use the SQL Tuning Advisor to determine if there are performance problems
- Use the Memory Advisor to size memory buffers
- Troubleshoot invalid or unusable objects

Perform the Backup of a data base

- Identify the types of failure that might occur in a database
- Identify the roles of checkpoints, redo log files, and archived log files
- Configure ARCHIVELOG modes
- Create a consistent database backup
- Backup a database without shutting it down
- Create an incremental backup

Perform the Recovery of a data base

- Perform recovery from the loss of a control file
- Perform recovery from the loss of a redo log file
- Perform recovery from the loss of a data file
- Restore the contents of a table to a specific point in time with the FLASHBACK Table
- View the transaction history of a row of user data

Move data objects

- Describe alternative ways to move data
- Create directory objects
- Use directory objects
- Use SQL*Loader to import data from a non-Oracle database
- Use the Data Pump export to move data between Oracle databases
- Use external tables to move data via platform independent file

CTP 247 - Database Administration 2

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 225 - Database Administration 2 Focus on advanced topics in database administration. Learn data recovery techniques, performance monitoring, resource management, and database security through structured hands-on exercises. This course is the fourth in the series of Oracle database administration courses. This course addresses the core material of the Oracle Certified Associate exam objectives. Prereq(s): *CTP 245 with a grade of C or better or permission of the CTP department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

User Managed Backups

- Cold backups

User Managed Restore and Recovery

- Manual Restore
- Recovery scenarios

Automatic Storage Management (ASM)

- ASM Overview
- ASM Instance
- Disk Group Creation
- Failure Groups and Redundancy
- ASM Operations

RMAN Backups

- Recovery Manager (RMAN) Oracle's preferred Backup utility
- Configuration of RMAN per database
- RMAN Backup Scenarios

RMAN Catalog

- A Recovery catalog which stores the metadata about the backup
- An integral part of backup and recovery using RMAN

RMAN Recovery

- RMAN Recovery
- RMAN Reports and Lists

Perform an Advanced Recovery using RMAN

Oracle Flashback Technology

using Oracle-optimized flashback logs to restore the entire database to a specific point-in-time

Performance Resource Management

Transportable TS

Resumable Space Management

Automatic Diagnostics and Performance Management

Automatic Diagnostic Repository

Fault Diagnosability Infrastructure

DBMS Scheduler and Task Automation

Schedule object

Scheduler Architecture

Globalization Support in Oracle

Database Character Sets and National Language Support

Timezones

Adding Locales

CTP 250 - Computer Science 2

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 250 - Data Structures in C++

Learn advanced algorithms and programming concepts, and the role of abstract data types in software development, including stacks, queues, linked lists, recursion, trees and file manipulation. Discuss and implement secure programming concepts and skills throughout the course. Prereq(s): *A grade of C or better is required in CTP 150 or CSI 162. Note: Students are expected to know object-oriented programming concepts before taking this course.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL)

Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Define and implement common Abstract Data Types (ADTs)

Identify, define and implement recursive solutions to programming problems.

Compare and contrast multiple searching and sorting algorithms.

Identify and implement ways to prevent security issues in code.

CTP 251 - Object-Oriented Programming in C++

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Develop computer programs in the C++ programming language using object-oriented design principles and problem-solving techniques. Learn the data types, control structures, classes, arrays, file I/O, and generic programming constructs in the C++ programming language. Emphasize style, documentation, solution robustness, and conformance with specifications throughout course work. Lab fee \$25. Prereq(s): *CTP 150 or permission of computer science department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Implement algorithms in C++

Develop problem-solving skills utilizing programming constructs and the object-oriented design pattern in C++

Write C++ programs that implement I/O concepts

Implement secure programming solutions in C++ including proper internal documentation and test cases

CTP 255 - Computer Organization

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 255 - Computer Organization Learn the fundamentals of computer organization and architecture. Learn about basic hardware and software structure, computer arithmetic, assembly language, digital logic, parallelism, input and output processes, memory organization and RISC vs. CISC architectures. Lab fee \$40. Prereq(s): *CSI 161 or CTP 150 or permission of CTP department chair.*

Course Outcomes

Understand and use computer instructions.

- Define and use computer hardware operations and operands
- Write Assembly language code
- Use correctly signed and unsigned numbers
- Describe how instructions are represented
- Evaluate logical expressions using logical operations and decisions
- Understand and describe arrays and pointers
- Discuss parallelism and instruction synchronization
- Translate instructions
- Discuss RISC vs. CISC architectures

Correctly evaluate expressions using computer arithmetic.

- Perform the arithmetic operations of addition, subtraction, multiplication and division
- Perform floating point arithmetic
- Understand and describe parallelism and associativity

Understand, define and describe the computer processor.

- Define and give examples of digital logic
- Build a data path
- Understand and describe pipelining
- Understand and describe hazards and exceptions
- Understand and describe processor parallelism

Understand and describe memory organization

- Understand and describe cache memory
- Understand and describe virtual memory
- Understand and describe virtual machine
- Understand and describe parallelism and memory

Understand and describe storage and I/O.

- Understand and describe disk and flash storage
- Understand and describe the process of connecting processors, memory, and I/O devices
- Understand and describe the process of interfacing with the operating system
- Understand and describe parallelism with storage and I/O

Understand and describe parallel processing

- Create parallel processing programs
- Understand and describe multiprocessors and multithreading

CTP 260 - Python for Data Science

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Learn scientific computing and data analysis techniques to analyze and visualize data using Python libraries. Apply common descriptive statistics including finding the mean, median, mode and standard deviation to data sets. Plot and graph data sets using Python libraries. Emphasize style, documentation, solution robustness, and conformance with specifications throughout coursework. Lab fee \$25. Prereq(s): CTP 160 and MAT 135; or permission of academic chair.

Course Outcomes

- Import and use data for analysis and visualization
- Perform data analysis and visualization using Python libraries.
- Demonstrate version and source control.
- Present data using presentation tools.

CTP 275 - Internship Experience in Computer Technologies 1

3 credit hours -

Formerly CSI 275 - Internship Experience in Computer Technologies 1 Earn college credit for an internship that provides the opportunity to apply to an actual work experience the concepts and skills learned across multiple courses in a computer technology program. Students learn how the many different aspects of their program operate in concert. Learn the technical and human factors

that are critical in computer technology work environments. Prereq(s): (1) *Successful completion of 12 credit hours of CTP courses;* (2) *minimum grade point average of 2.5;* and (3) *permission of CTP department chair prior to enrollment.* Location(s) Typically Offered: Independent Study (IS) Term(s) Typically Offered: Summer

CTP 276 - Internship Experience in Computer Technologies 2

3 credit hours -

Formerly CSI 276 - Internship Experience in Computer Technologies 2 Earn college credit for a second computer technology internship that provides the opportunity to apply to an actual work experience the concepts and skills learned across multiple courses in a computer technology program. Prereq(s): (1) *Successful completion of CTA 275;* (2) *minimum grade point average of 2.5;* and (3) *permission of CTP department chair prior to enrollment.*

CTP 280-299 - Special Topics in Computer Technologies

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Formerly CSI 280-299 - Special Topics in Computer Technologies Current or specialized topics in computer technologies. Topics include new programming languages, software development environments, new personal computer application packages and special areas of computer usage such as telecommunications and local area networks. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

CTS 105 - Microcomputer Operating Systems

3 credit hours - Three hours of lecture and directed laboratory weekly; one term.

Formerly CSI 130 Microcomputer Operating Systems Investigate the purposes, features and characteristics of microcomputer operating systems. Utilize current microcomputer operating systems to manage computer resources, performance, and security. Apply virtualization tools to run multiple operating systems on a single computer. Lab fee \$2. Note: *It is highly recommended students who do not have a working knowledge of computers complete CTP 103 before enrolling in CTS 105.* Term(s) Typically Offered: Infrequently

Course Outcomes

Describe the purposes of microcomputer operating systems and the functions they perform

Describe the purpose and functions of microcomputer operating systems.

Describe major events in the development of microcomputer operating systems including virtualization.

Identify and describe the features of contemporary microcomputer operating systems.

Demonstrate the ability to interact with the command interface for the operating systems (e.g., DOS, and GUI)

Demonstrate an understanding of the basic features of command line and graphical user interfaces.

Demonstrate the ability to perform basic file management functions such as: create files, delete files, make and remove directories, copy files between directories, cut and paste text between different documents and software applications.

Use the command prompt and terminal window of current microcomputer operating systems to perform basic file management functions.

Use the graphical user interface of current microcomputer operating systems to perform basic file management functions.

Demonstrate the ability to perform basic system management functions such as: organize files on disks and diskettes, optimize computer file storage space, and perform file and system backup procedures.

Describe security threats and vulnerabilities to microcomputers and users.

Identify methods for protecting against security threats.

Use the command prompt and terminal window of current microcomputer operating systems to perform basic system management functions.

Use the graphical user interface of current microcomputer operating systems to perform basic system management functions.

Demonstrate the ability to command system resources and components (memory, disk drives, printers, CD, etc).

Use the command prompt and terminal window of current microcomputer operating systems to command system resources and components.

Use the graphical user interface of current microcomputer operating systems to command system resources and components.

Demonstrate the ability to troubleshoot common microcomputer hardware and software problems.

Use the command prompt and terminal window of current microcomputer operating systems to detect and correct common hardware and software problems.

Use the graphical user interface of current microcomputer operating systems to detect and correct common hardware and software problems.

CTS 107 - Cyber Essentials

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

This course meets the Technology Requirement. Develop an understanding of computer technology within the context of the cyber domain in our connected world. Learn about the basic structure of hardware, software, and network systems, the threats these systems face, and how to defend them. Use hands-on lab experiences to develop the foundational skills needed to maintain and protect computer systems. Lab fee \$2. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Note: *This is the first course in computing for students majoring in cybersecurity, networking, and digital forensics or who would like to expand their knowledge of information assurance and cybersecurity.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify and describe the hardware and software principles underlying computers, operating systems, application software, virtualization, and networks.

Perform basic system management functions such as file organization, performance management, problem troubleshooting, and user management.

Explain the principles used to design, create, and execute computer programs and scripts.

Identify, describe, and respond to security threats.

CTS 110 - Network Essentials

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 132 Network Essentials Learn the fundamental building blocks that form a modern network including protocols, topologies, hardware and network operating systems. Develop the networking knowledge and skills related to TCP/IP, Ethernet, and wireless transmission and security. Learn to maintain and troubleshoot existing local area networks. Lab fee \$5. Prereq(s): *CTS 107.* Note: *This course addresses the core material of the CompTIA Network+ exam objectives. Students who complete both CTP 103 and CTS 105 prior to Fall 2019 already meet the prerequisite to register for CTS 110 and thus are not required to complete CTS 107.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Explain the concepts of a network, the functions of common networking equipment and how it relates to the layers of the OSI model.

Identify different network media, connectors, cable properties, and wiring standards.

Identify networking devices and other specialized devices.

Identify the IP addressing scheme, broadcasts, unicasts, and subnetting.

Identify routing protocols, router convergence, and how data moves through a network including the use of routers and switches

Explain Switching, VLANs, STP, PoE, and port mirroring.

Describe wireless standards, wireless security, and wireless network components.

Explain authentication, network threats and mitigation, and physical and hardware security.

Identify a Wide Area Network and WAN connection types.

Identify hardware, software, and network management and optimization tools.

CTS 115 - Operating Systems

4 credit hours - Four hours of lecture weekly; one term.

Formerly CSI 133 - Operating Systems Examine the concepts and theories of modern operating system software. Cover systems' features, capabilities and limitations. Learn how the systems function and differ from one another. View popular operating systems currently used in industry. Lab fee \$35. Prereq(s): *CTP 103 and one programming language.*

CTS 120 - Introduction to Linux

4 credit hours - Four hours of lecture /directed laboratory weekly; one term.

Formerly CSI 135 - Introduction to UNIX/LINUX Learn the basic elements of the Linux operating system including the hierarchical file structure. Create and edit files, write shell programs and provide system security. Hands-on experience with a multi-user Linux system is provided and emphasized. Lab fee \$2. Note: *It is highly recommended that students who do not have a working knowledge of computers complete CTS 107 or CTA 105 or CTP 103 before enrolling in CTS 120.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

1. Describe the Linux operating system.
2. Demonstrate proficiency in Linux commands and operations.
3. Apply basic security configuration.
4. Explain the Linux hierarchical file system.
5. Create and manage files.
6. Develop and execute shell programs.

CTS 130 - Networking 1

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 157 - Networking 1 Describe the devices and services used to support communications in data networks and the Internet. Describe the role of protocol layers in data networks. Design, calculate, and apply subnet masks and addresses in IPv4 and IPv6 networks. Explain Ethernet concepts such as media, services, and operations. Build simple Ethernet networks using routers and switches. Use Cisco command-line (CLI) commands to perform basic router and switch configurations. Utilize network utilities to verify small networks and analyze data traffic. Lab fee \$5. Prereq(s): *CTS 110.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Describe the Open System Connect (OSI) and Transmission Control Protocol/Internet Protocol (TCP/IP) models

- Discuss the layers of the Open System Connect (OSI) model
- Discuss the layers of the Transmission Control Protocol/Internet Protocol (TCP/IP).
- Discuss protocols and standards for standardization

Describe the devices and services used to support communications in data networks and the Internet

- Explain the purpose of the Cisco IOS
- Describe the command structure of the Cisco IOS software
- Use Cisco command to configure a router or a switch

Describe the importance of addressing and naming schemes at various layers of data networks in IPv4 and IPv6 environments

- Configure IPv4 and IPv6 addressing
- Describe the purpose of a subnet mask
- Compare the use of public and private address space

Design, calculate, and apply subnet masks and addresses in IPV4 and IPV6 networks

- Design a network and subnet mask and calculate the number of addresses available
- Calculate the necessary subnet mask in order to accommodate a given number of hosts
- Describe the benefits of variable length subnet masking (VLSM)

Discuss Ethernet concepts such as media, services and operations.

- Describe the operation of the Ethernet sublayer
- Describe the characteristics of Ethernet MAC address
- Describe the purpose of ARP and its impact on network and host performance

CTS 131 - Networking 2

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 158 - Networking 2 Explore switching concepts such as VLAN and trunking technologies. Configure and troubleshoot a small switched network. Explain how vulnerabilities can be mitigated to enhance network security. Learn the purpose and operation of routing concepts. Explain the benefits and operations of DHCP. Discuss network concepts such as WLANs, LAN redundancy and link aggregation. Lab fee \$5. Prereq(s): *CTS 130 with a grade of "C" or better or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain the purpose of VLANs and trunking.
- Implement security best practices to mitigate LAN attacks.
- Describe how routers make forwarding decisions.
- Explain DHCP operation.
- Identify WLAN, LAN redundancy and link aggregation technologies.

CTS 140 - Network Security Fundamentals

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 165 - Network Security Fundamentals Learn the current risks and threats to an organization's data together with ways to safeguard critical electronic assets, including network services, devices, traffic and data. Develop a foundation to prepare for further study in other specialized security fields. This course addresses the core material of the CompTIA Security+ exam objectives. Lab fee \$2. Prereq(s): *CTS 110*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify security threats to network services, devices, traffic and data
- Secure Network Communications
- Enforce an organizational security policy
- Monitor the security infrastructure

CTS 170 - Digital Forensics 1

3 credit hours - Three hours of lecture and directed laboratory weekly; one term.

Formerly CSI 207 - Cyber Forensics 1 Explore a professional approach to computer and cybercrime investigations. Learn to identify potential electronic evidence, create strategies to locate and recover evidence, and perform forensic analysis. Discuss legal and ethical considerations of computer crime investigations. Lab fee \$60. Prereq or Coreq: *CTS 107*; or *CTS 105 prior to Fall 2019*. Crosslisted: *Also offered as CJS 170*; credit is not given for both *CTS 170* and *CJS 170*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Plan a digital forensics investigation.
2. Explain legal limitations on searches and seizures of evidence.
3. Identify vulnerabilities and assess risks in forensic investigations.
4. Identify data of potential interest to a forensic investigation.
5. Use open source and commercial tools for digital evidence acquisition and analysis.
6. Prepare a presentation of forensic findings.

CTS 207 - Digital Forensics 2

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 208 - Cyber Forensics 2 Practice digital forensics response and examination techniques. Recover and analyze digital evidence using industry standard commercial and open source tools. Evaluate operating systems and file systems to locate and analyze evidence using various Windows, Linux and Mac command line and GUI tools. Use investigation results to develop comprehensive forensic reports. Course fee \$60. Prereq(s): *CTS 170* or *CJS 170*. Crosslisted: *Also offered as CJS 207*; credit is not given for both *CTS 207* and *also CJS 207*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Plan and execute a digital forensics response in a large-scale evidence environment.
2. Identify appropriate acquisition tools and techniques based upon a given response environment.
3. Examine the functionality of operating systems and file systems as related to data storage and digital evidence.
4. Identify and recover data of potential interest to a forensic investigation.
5. Prepare a presentation of forensic findings.

CTS 209 - Digital Forensics 3

4 credit hours - Four hours of lecture and laboratory weekly; one term.

Formerly CSI 209 - Cyber Forensics 3 Explore advanced analysis concepts in digital forensics investigations. Perform forensic analysis of digital evidence retrieved from both current and legacy systems using industry standard commercial and open source tools. Learn how computer forensics analysts focus on collecting and analyzing data from computer systems to track user-based activity that can be internal investigations or civil/criminal litigation. Focus on an in-depth understanding of Windows operating system artifacts. Lab fee \$60. Prereq(s): *CTS 207 or CJS 207*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Investigate the technical characteristics of computer crime offenses.
2. Conduct digital investigations using industry standard tools.
3. Perform investigative reconstruction.
4. Prepare technical reports.
5. Demonstrate expert level proficiency with digital forensics software.

CTS 210 - Information Systems Security

3 credit hours - Three hours of lecture weekly; one term.

Formerly CSI 214 - Information Systems Security Gain an understanding of physical security, hardware, software, and communications security. Recognize and handle viruses. Discuss technical, legal and ethical issues associated with information systems security. Prereq(s): *CTS 110 or CTS 130 or permission of CTS department chair*.

Course Outcomes

Demonstration an understanding of Information Security Fundamentals

- Define information security
- Describe the history of computer security, and explain how it evolved into information security
- Define key terms and critical concepts of information security
- Describe the phases of security systems development life cycle
- Describe the information security roles of professionals within an organization
- Explain why organizations have a need for information security
- Identify threats and attacks from both inside and outside an organization
- Describe security issues related to software development

Describe the legal, ethical and professional issues in information security

- Describe the laws, regulations and professional organizations related to information security and how they interact
- Differentiate between laws and ethics
- Identify major national laws related to information security
- Explain the role of culture as it applies to ethics in information security

Demonstrate an understanding of risk management

- Define risk management, risk identification, and risk control
- Describe how risk is identified and assessed including probability of occurrence and likely impact
- Explain documenting risk via the process of risk assessment
- Describe risk mitigation strategies
- Identify categories for classifying controls and formulate a cost benefit analysis
- Describe how to maintain and perpetuate risk controls

Demonstrate an understanding of security planning

- Define management's role in information security policy
- Describe and identify the major components information security blueprints
- Describe how organizations institutionalize information security
- Explain contingency planning and its relationship to other security planning

Demonstrate an understanding of cryptography

- Explain the basic principles of cryptography
- Describe the operating principles of popular cryptographic tools
- Identify the major protocols used for secure communications
- Discuss the dominate methods of attack used against cryptosystems

Demonstrate an understanding of security technology

- Describe access control including authentication factors
- Describe firewall technology and implementation
- Describe the various approached to control remote and dial-up access
- Discuss content filtering
- Describe technology used in virtual private networks
- Identify instruction detection and prevention systems
- Define and describe honeypots, honeynets, and padded cell systems
- Identify scanning and analysis tools
- Explain methods for access control

Identify the characteristics of physical security

- Discuss the relationship between information security and physical security
- Describe key physical security considerations
- Identify critical physical environment considerations for computing facilities

Demonstrate an understanding of the implementing Information Security

- Explain how an organization's information security blueprint becomes a project plan
- Enumerate the organizational considerations that a project plan must address
- Explain the role of the project manager
- Describe technical strategies and models for implementing a project plan
- Describe nontechnical problems organizations may face

Demonstrate an understanding of security as it related to personnel

- Describe the positioning of the information security function within an organization
- Explain staffing issues and concerns related to information security function
- Identify credentials of information security professionals
- Explain how employment policies and practices can support the information security effort
- Identify the special security precautions of contract workers
- Explain the need for separation of duties
- Describe the special requirements needed to ensure the privacy of personnel data

Demonstrate an understanding of Information Security Maintenance

- Discuss the need for ongoing maintenance
- List the recommended security management models
- Define a model for a full maintenance program
- Identify the key factors for monitory the external and internal environment
- Describe the systems needed to implement information security maintenance including readiness and review procedures
- Define digital forensics and the management of digital forensics maintenance
- Describe the process of acquiring, analyzing, and maintaining potential evidentiary material

CTS 215 - Server Administration

4 credit hours - Three hours of lecture and two hours of lab weekly; one term.

Install and configure Windows and Unix server. Create and manage users and groups. Manage protocol support, disk administration, shells, web servers, and network security features. Implement boot-up and shutdown process, and file system structures. Obtain a basic understanding of server virtualization. This course covers both Windows and Linux/Unix server platforms. Master the tools and concepts that would be utilized by a junior-level network administrator. Lab fee \$50. Prereq(s): CTS 105, CTS 110, and CTS 120.

Course Outcomes**Identify the characteristics of network platforms and their relationship to PCs**

- Identify differences between Windows and Linux/Unix platforms.
- State the role of PCs and Servers.
- Discuss when Windows should be used and when Linux should be used on PCs.

Describe the different versions of the Windows Server platform.
Describe the different versions of Linux, and the multiple versions of Unix.
Illustrate the Linux/Unix release and versioning process.
Explain the value of secondary storage devices.

Install both Windows and Linux/Unix Servers

Identify the hardware and kernel requirements for each platform.
Install Windows Server on a server platform.
Recognize the flow of the Windows Bootup and Shutdown processes.
Explain how a Windows unattended installation might proceed.
Install the Fedora version of Linux on a server.
Perform the Fedora version of Linux Bootup and Shutdown processes.
Explain how an Unix versions might be installed on proprietary hardware.

Configure and customize both Windows and Linux/Unix servers for use as network servers

Configure Windows performance options and environment variables.
Describe NTFS, the Windows Server file system.
Explain the purpose of the Windows Registry.
Use the Windows Configuration wizards to modify the server parameters to demonstrate the ability to configure a Windows Server for a network enabled environment.
Explain the purpose of the BIOS, and demonstrate the ability to modify BIOS parameters.
Describe when to use each of the following and the overhead required for each: primary partitions, extended partitions, and logical volumes.
Describe the Fedora version of the Linux Server file system, and contrast it to the Windows Server NTFS.
Modify Linux/Unix system behavior by adjusting boot parameters.

Use shells to write code that can display and modify parameters on both Windows and Linux/Unix servers when used as network servers

Write code using the Windows Powershell to display and set system options and environment variables.
Write code using the Linux/Unix Bourne shell (BASH) to display and set system options and environment variables.
Describe which shell should be used for which purpose on a given platform.
Explain the value of using the BASH shell on Windows Servers.
Discuss the purpose and functionality of Linux/Unix and Windows utilities.

Identify how Users, Groups, Devices, and Sites are implemented on the various server platforms.

Identify the differences between the Windows Server implementation and the Linux/Unix implementation of users, groups, devices, and sites.
Explain the role of sites in a networked environment.
State the role of domains, trusts, and accounts in a networked environment.
Design a domain to be implemented on a Windows Server.
Create domains, trusts, and accounts.
Add users and groups to a domain.
Explain how the TCP/IP protocol LDAP can be utilized in a network of mixed Windows and Linux/Unix computers.
Describe the function of distinguished names (DN) in a computer network.
Add users and groups to a Linux/Windows system.
Explain how directory system agent entries work in a Linux/Windows system.

Manage resource access on both Windows and Linux/Unix platforms

Identify the requirements for file and folder permissions.
Configure file and folder permissions.
Turn on and monitor the audit function on files and folders for a networked, multi-platform environment.
Explain the differences between DFS in Windows and Linux/Unix file and folder permissions.
Set up file and folder permissions on both Windows and Linux/Unix.

Describe how to manage and protect data stored in a networked, multi-platform Windows and Linux/Unix environment.

Describe the differences between Basic and Dynamic disks on Windows Servers.
Configure Dynamic disks on a Windows Server.
Discuss the partition and volume management process on Windows Server.
Partition data stores on Windows Servers.
Identify the purpose of disk backups in a networked, multi-platform Windows and Linux/Unix environment.
Perform disk backups on a networked Windows Server.
Use disk tools to partition a Linux/Unix server.
Describe the purpose of hard links and symbolic links on a Linux/Unix server.

- Install hard links and symbolic links on a networked Linux/Unix server.
- Recognize the benefits and disadvantages of disk duplexing, striping, and checksums in a networked, multi-platform Windows and Linux/Unix environment.
- Calculate the extra disk space required when doing each of the following: disk duplexing, striping, and checksums.
- Describe the purpose of SANs (Storage Area Networks)
- Install a Web Server on either a networked Windows or a Linux/Unix platform.**
 - State the role of Certificate Services in an Internet.
 - Explain when to use Active Server pages and when to use Passive pages.
 - Create virtual directories and domain names.
 - Install and test a Windows Server based web page service using IIS.
 - Describe how CGI scripts add value to Internet web pages.
 - Recognize the source of Error Codes that commonly occur when retrieving web pages.
 - Explain how redirects are utilized as part of an advanced web server configuration on a Linux/Unix server.
 - Demonstrate how to install and test a Fedora version of Linux Server based web page service using the Apache server with PHP scripting.
- Install remote services on a networked Windows platform for use in a networked Windows and Linux/Unix world.**
 - Explain the value of a Virtual Private Network (VPN) in the Internet.
 - Recognize the role of dial-up remote access services on legacy Windows Server systems.
 - Recognize the role of terminal services in legacy Windows Server systems for accessing network resources remotely.
 - Configure Terminal Services on a Windows Server.
 - Identify the differences between the Windows implementation of ASCII and the Linux/Unix implementation (CR/LF)
 - Recognize the role of dial-up remote access services on legacy Linux/Unix Server systems.
 - Explain how X-terminals are utilized by users and network administrators.
 - Configure X-windows on Linux/Unix servers.
- Create a Virtualized environment that includes both a networked Windows Server and a Linux/Unix server.**
 - State the advantages of and the basic properties of a virtualized system
 - Discuss the features and requirements of implementing Hyper-V on a Windows Server.
 - Install Hyper-V on a Windows Server.
 - Add a virtualized Linux server to an existing installation of Hyper-V on a Windows Server.
- Identify the processes supporting software application and data provisioning in server environments.**
 - Describe the differences between the Windows .NET framework and the Linux/Unix software development life cycle.
 - Manage Windows Server based applications.
 - Implement distributed computing on Windows Servers and Linux/Unix servers.
 - Identify the components of distributed transactions in a network.
 - Discuss how load balancing is accomplished in a network.
- Identify the components and processes for securing Windows Servers in server environments.**
 - Explain the difference between symmetric and asymmetric encryption.
 - Implement account and audit policies in a Windows Server based networked environment.
 - Publish and assign software on Windows Servers.
 - Use the cipher command to help secure a Windows Server in a networked environment.
 - State the role of Network Address Translation (NAT) as a security mechanism in a networked, multi-platform Windows and Linux/Unix environment.
 - Install and configure Network Address Translation (NAT) on a Windows Server.
 - Discuss how IPsec can assist in network security.
 - Install and configure security for a networked Windows Server.
- Identify the components and processes for securing Linux/Unix servers in server environments.**
 - Code iptables and security rules on a Linux/Unix server.
 - Implement a firewall on a Linux/Unix server.
 - Discuss how packet matching criteria and extensions can increase a Linux/Unix system security.
 - Explain how to find and download a current copy of the Secure Linux (SeLinux) demonstration system from the National Security Agency (NSA) website.
- Monitor both Windows Servers and Linux/Unix servers in a networked environment.**
 - Use the Windows Server Task Manager to monitor system wide resources.
 - Capture data for performance monitoring a networked server environment, and be able to analyze basic performance problems.
 - Analyze the numeric outputs of performance monitors.

Ensure system reliability on both Windows Servers and Linux/Unix servers when those servers are in a networked environment.

- Explain how servers and a network interact when resolving problems on a Windows Server system.
- Resolve boot problem by using SAFE mode on a Windows Server system.
- Recognize when to use each of the different Linux/Unix server system logs to resolve problems in a networked environment (var/log, var/log/messages, and var/spool)
- Discuss how to use Google groups and Open Source documentation to assist in resolving problems on Linux/Unix servers.

CTS 216 - Network Forensics

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Explore analysis concepts in network forensic investigations. Monitor, capture, and analyze network activity using industry standard tools and methods. Preserve volatile and dynamic information transmitted across computer networks. Investigate network packets, logs, and memory for the purpose of linking the information to a source of potential network attack. Lab fee \$2. Prereq or Coreq: CTS 140. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Apply knowledge of computer systems and network protocols to identify potential network attacks.
- Conduct network forensic investigations using industry standard tools and methods.
- Perform investigative reconstruction in a network environment.
- Conduct post-incident remediation and prevention activities.
- Prepare technical reports.

CTS 220 - UNIX/LINUX Shell Programming

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 235 - UNIX/LINUX Shell Programming Gain a detailed introduction to programming with shell scripting language in a UNIX/LINUX environment, including Bourne shell, C-shell, and Korn shell programming. Use UNIX/LINUX tools such as grep, awk, sed, and sort. Examine environments such as perl, bash, and tcsh. Lab fee \$35. Prereq(s): CTS 120 or permission of CTS department chair.

Course Outcomes

- Familiarity with several common shells including the Bourne shell and C shell.**
 - Demonstrate familiarity with several common shells including the Bourne shell and C shell.
- Ability to develop and execute shell scripts in at least one shell.**
 - Demonstrate ability to develop and execute shell scripts in at least one shell.
- Ability to use tools for searching and editing files such as grep and awk.**
 - Demonstrate ability to use tools for searching and editing files such as grep and awk.
- Ability to write simple scripts in a more advanced language such as Perl.**
 - Demonstrate ability to write simple scripts in a more advanced language such as Perl.
- Familiarity with the organizations of UNIX file system.**
 - Demonstrate a familiarity with the organizations of UNIX file system.

CTS 222 - UNIX/LINUX System Administration

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 236 - UNIX/LINUX System Administration Learn loading, configuring and maintaining UNIX operating systems. Focus on popular UNIX operating systems such as Redhat LINUX and SUN's SOLARIS UNIX operating system. Learn theory and hands-on implementation of the boot-up and shutdown process, file system creation and structure, system maintenance and security, network file system (NFS), network information system (NIS) and UNIX IP network configuration and maintenance. Presents tools and concepts to become a junior-level UNIX system administrator. Lab fee \$2. Prereq(s): CTS 120. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Experience loading, configuring, and maintaining a UNIX Operating System

- Demonstrate an understanding of the UNIX directory structure
- Boot and shutdown a UNIX system
- Customize the boot-up and shutdown process
- Add, remove and configure peripheral devices

Learn theory and hands-on implementation of the boot-up and shutdown process, file system creation and structure, system maintenance and security.

- Add and remove software
- Establish and maintain a secure system
- Implement system back-up and restoration strategies

Configure network file system (NFS), network information system (NIS) and UNIX IP network configuration and maintenance.

- Implement networking management strategies
- Demonstrate an understanding of the theory and the implementation of address translation
- Demonstrate an understanding of the theory and the implementation of network file sharing (NFS)

Presents tools and concepts to become a junior-level UNIX system administrator.

- Demonstrate an understanding of the theory and the implementation process of proven strategies for file system and user administration management
- Use UNIX mail and printer client operations and administration

CTS 223 - Advanced UNIX/LINUX System Administration

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 237 - Advanced UNIX/LINUX System Administration Continue studies of UNIX/LINUX system administration.

Demonstrate the ability to manage printer administration, mail server configuration and maintenance, back-up and storage strategies, domain name service (DNS) implementation, kernel configurations, and UNIX/LINUX Internet server design and setup. Learn advanced topics in network file server (NFS), network information service (NIS), UNIX/LINUX Internet protocol (IPv6), user and system security and in depth troubleshooting techniques. Cover automating administration tasks and adding functionality using the boot process with writing shell scripts. Lab fee \$35. Prereq(s): CTS 222.

CTS 225 - Wireless LANs

3 credit hours - Three hours of lecture weekly; one term.

Formerly CSI 269 - Wireless LANs Apply the principles of wireless data communications, protocols and standards as related to Wireless Local Area Networking (WLAN) through integrated lab demonstrations and exercises. Learn about the characteristics and uses of wireless network devices, RF transmission, propagation and WLAN frequency bands. Compare and contrast standard "wired" network device and WLAN implementations. Build, configure, secure and troubleshoot basic and extended WANS. Qualify to administer and support different brands of wireless LAN hardware. This course prepares students to sit for Certified Wireless Network Administrator (CWNA) certification. Lab fee \$50. Prereq(s): CTS 110 or CTS 130.

Course Outcomes**Apply the basic technical language pertaining to Wireless Local Area Networking (WLAN).**

- Identify the key features of Wireless Networking.
- Understand Wireless Networking.
- Understand and implement Wireless Networking.

Describe the purposes of Wireless Networking and the functions they perform as a Wireless Networking person.

- Identify the key features and functions Wireless Networking engineer would perform
- Understand how a Wireless Networking engineer would perform wireless networking tasks.

Demonstrate the ability to interact with Wireless Local Area Networking (WLAN) and peripherals.

- Identify the key features and with Wireless Networking (WLAN) and peripherals.
- Understand how a Wireless Networking (WLAN) and peripherals work.

Demonstrate the ability to secure a Wireless Networking (WLAN) and peripherals.

- Understand how to harden Wireless Local Area Networking (WLAN) and peripherals.
- Identify the key features and functions of hardening with Wireless Local Area Networking (WLAN) and peripherals.

CTS 230 - Networking 3

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Explore WAN access technologies that can be used to satisfy business requirements. Learn how to monitor network traffic and mitigate network security threats. Perform implementation of technologies to control network traffic and secure administrative access. Identify technology trends such as virtualization, SDN and automation. Lab fee \$5. Prereq(s): *CTS 131 with a grade of "C" or better or permission of the CTS department chair*. Location(s) Typically Offered: Arundel Mills (AM) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Explain WAN technologies available for large networks.
2. Demonstrate the operation of dynamic routing protocols.
3. Demonstrate how to implement advanced IP services to monitor and manage network traffic.
4. Describe how to mitigate security threats.
5. Identify network technology trends.

CTS 231 - Networking 4

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 258 - Networking 4 Identify the WAN technologies and network services required by converged applications in a complex network. Demonstrate how to configure PPPoE, GRE, and single-homed eBGP. Determine how to control network traffic using extended IPv4 and IPv6 ACLs. Demonstrate the skills needed to mitigate security threats and monitor network traffic using SNMP, Cisco SPAN and IP SLA. Identify technologies such as QoS and trends in networking including Cloud, virtualization, and SDN. Lab fee \$100. Prereq(s): *CTS 230 with a grade of "C" or better or permission of the CTS department chair*.

Course Outcomes

Identify the WAN technologies and network services required by converged applications in a complex network.

Configure PPPoE, GRE, and single-homed eBGP.

Determine how to control network traffic using extended IPv4 and IPv6 ACLs.

Mitigate security threats.

Monitor network traffic using SNMP, Cisco SPAN, and IP SLA.

Identify relevant technologies, such as QoS, and trends in networking, including Cloud, virtualization, and SDN.

CTS 232 - CISCO Certified Network Associate (CCNA) Preparation

1 credit hour - 15 hour lecture per term.

Formerly CSI 259 - CISCO Certified Network Associate (CCNA) Preparation Learn the theory and laboratory skills necessary to pass the CCNA exam. Prepare for simulator questions and strengthen test-taking skills. Review routing and switching fundamentals, TCP/IP and OSI models, routing protocols, STP, access lists, network security, WAN technologies and troubleshooting. Lab fee \$25. Prereq(s): *CTS 231 or permission of CTS department chair*.

Course Outcomes

Learn the theory and skills necessary to pass the CCNA certification exam by preparing for questions and strengthening test-taking skills.

- Prepare for simulator questions
- Review test taking tips and time management

Review CCNA Topics on routing and switching fundamentals.

- Describe Network communications using layered models
- Explain VLANs and inter-switch communications
- Review IP addressing scheme and IP services such as NAT and DHCP
- Explain ACLs and routing protocols
- Review security, troubleshooting, and router and switch operation and configuration

CTS 233 - Network Programming

4 credit hours - Four hours lecture and directed laboratory weekly; one term.

Develop basic Python programming and Linux skills to automate network operations. Learn best practices of modern software development and DevOps. Learn how to securely use APIs for network programming and automation Prereq(s): *CTS 130 and either CTP 114 or CTP 115.* Note: *Students are recommended to take CTS 131 or CTS 230 before CTS 233.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Develop basic Python programming and Linux skills.
- Use software development and design best practices.
- Explain the processes and devices that support network connectivity.
- Use current technologies to deploy and secure applications and data in a cloud environment.
- Compare software testing and deployment methods in automation and simulation environments.

CTS 234 - Windows Server

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Learn the skills needed to install and configure Windows Server. Develop an in-depth knowledge of Windows Server features and services, including Active Directory, Identity Services, User and Computer accounts, Group Policy, and Certificate Services. Manage security, system backup, and network services such as DNS and DHCP. Lab fee \$2. Prereq(s): *CTS 110.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Describe the role of a server operating system and Windows Server core technologies
2. Plan a Windows Server installation, including installing the first server on a new network and expanding an existing network
3. Configure and manage Windows Server
4. Configure storage and files systems
5. Implement virtualization, manage, and optimize virtual machines
6. Configure and manage group policies
7. Implement Active Directory Certificate Services
8. Implement Identity Solutions

CTS 235 - Windows Server Networking

3 credit hours - Three hours of lecture weekly; one term.

Formerly CSI 266 - Windows Server Networking Install, configure, manage, monitor and troubleshoot Windows networking including the use of networking protocols and networking services such as DHCP, DNS, WINS, RRAS, IP Routing, IPSec, Internet Connection Sharing, NAT, and certificate services. Complete relevant hands-on labs to reinforce concepts and skills. Lab fee \$40. Prereq(s): *CTS 234 or permission of CTS department chair.*

Course Outcomes

Understand basic networking models and protocols

- Identify the basic components of a network
- Describe the characteristics of IPv4 and IPv6
- Understand the protocols used in networking and the Internet
- Troubleshoot TCP/IP on networks

Install and configure Windows Server

- Understand Windows Server editions and characteristics
- Install and configure Full and Server core versions of Windows Server

Understand and implement DHCP

- Describe the components and process of DHCP
- Install DHCP in a Windows Server environment
- Configure the DHCP server

Administer DHCP on clients and servers
Troubleshoot DHCP

Understand and implement DNS and Active Directory

Describe Active Directory Services
Install Active Directory Services
Describe the basics of DNS
Configure DNS clients
Install a standard DNS server
Create standard DNS zones
Troubleshoot DNS
Manage Windows Internet Name Service

Understand and configure file services

Discuss File Services in Windows Server
Install the Distributed File System in Windows Server
Discuss and create shared file resources in Windows Server

Understand print management and installation of printers

Understand the Windows Printer model and its implementation
Install Printer Services components
Deploy printer with Windows Server
Configure printers on a Windows Server network

Understand and configure routing and remote access

Configure routing in Windows Server
Configure remote access in Windows Server
Understand Network Policy Server
Understand wireless networking with Windows Server

Secure Windows Server

Manage security in Windows Server
Understand threats to Internet Protocol Security
Create Internet Protocol Security policies
Understand and install Network Access Protection

Manage and monitor Windows Server networks

Use management console to maintain Windows Server
Update and maintain clients using Windows Server Update Service
Monitor Windows Server using build-in and downloadable utilities
Perform backup and restore tasks

CTS 236 - Virtualization & Cloud

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Learn the fundamental principles of virtualization technologies and cloud computing. Build, configure, and implement virtual desktop infrastructures and virtual networks. Identify the technology, architecture, and uses of cloud computing platforms including the application of virtualization in cloud environments. Build and configure Windows server based systems. Lab fee \$2. Prereq(s): CTS 234 with a grade of C or better or permission of academic chair. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to

1. Configure virtual networks using virtualization technologies
2. Manage virtual environments
3. Build computing resources in the cloud
4. Perform disaster and recovery and business continuity planning
5. Create technical documentation

CTS 237 - Cloud Foundation

3 credit hours - Two hours of lecture and two hours of lab weekly; one term

Develop technical expertise in cloud development using industry standard technologies. Explore cloud computing

concepts independent of specific technical roles. Learn cloud concepts, AWS core services, security, architecture, pricing, and support. This course addresses the core material of the AWS Practitioner Examination. Lab fee \$40. Prereq(s): *CTS 236 with a grade of C or better or permission of the academic chair.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Define the Cloud architecture, and identify global infrastructure components.
- Describe security and compliance measures of the Cloud architecture.
- Create a virtual private cloud (VPC).
- Explain the architectural principles of the Cloud.
- Explore key concepts related to load balancing and scaling.

CTS 238 - Cloud Developing

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Students will gain technical expertise in software development and deploy secure applications in the cloud. Configure programmatic access and identity management. Explain and configure caching and containers. Configure storage programmatically. Design and code event-driven solutions, and Application Programming Interface (API) Gateway. Lab fee \$40. Prereq(s): *CTS 237 with a grade of C or better or permission of the academic chair.* Note: *This course addresses the core material of the Amazon Web Services (AWS) Certified Developer - Associate-level AWS Certification exam. Concurrent enrollment may be permitted with CTS 239 or CTS 241 with permission of the academic chair.*

Course Outcomes

1. Demonstrate secure authentication and authorization access to cloud applications.
2. Design and build reliable and scalable cloud applications.
3. Develop cloud applications using APIs
4. Develop cloud workflow applications
5. Deploy secure applications in the cloud

CTS 239 - Cloud Solutions Architect

3 credit hours - Two lecture hours and two hours of laboratory weekly

Learn the fundamental principles of building a cloud-based infrastructure. Learn cloud technologies by understanding cloud services and how these services fit into cloud-based solutions. Emphasis is placed on best practices for the Cloud, and it recommends various design patterns to help you think through the process of architecting optimal IT solutions. Lab fee \$15. Prereq(s): *CTS 237 with a grade of C or better or permission of the academic chair.* Note: *This course addresses the core material of the AWS Solutions Architect - Associate exam.*

Course Outcomes

- Configure virtual networks using virtualization technologies.
- Manage virtual environments.
- Build computing resources in the cloud.
- Perform disaster and recovery and business continuity planning.
- Create technical documentation.

CTS 240 - Advanced Network Defense

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 217 - Advanced Network Defense Learn advanced security technologies and practices to defend network systems. Explore topics such as the essential security practices of hardening Windows and Unix/Linux servers, Internet applications and wireless systems, and defending network systems through the use of firewalls and Intrusion Detection Systems. Lab fee \$2. Prereq(s): *CTS 140.* Note: *Basic knowledge of Unix/Linux, Windows and virtual machines is recommended.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply the basic technical language pertaining to Network security.
- Describe the purposes of Network security and the functions they perform as a Network security professional.
- Demonstrate the ability to interact with the clients, servers, firewalls, IDS and virtual private networks (VPNs).
- Demonstrate the ability to harden computer devices

CTS 241 - IP Telephony – Foundation

3 credit hours - Three hours weekly; one term.

Formerly CSI 261 - IP Telephony – Foundation Gain an in-depth understanding of IP telephony and its impact on business. Examine both data and telephony technologies. Discuss the components, configuration and design considerations of IP telephony. Participate in hands-on labs to obtain technical skills related to IP telephony. Lab fee \$100. Prereq(s): *CTS 231 or permission of the academic chair.* Note: *This course is intended for students with a data technology background as well as those currently working in the telephone or computer industries.*

CTS 242 - Network Intrusion Detection and Penetration Testing

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CSI 219 - Network Intrusion Detection and Penetration Testing Learn the threats that are challenging the priorities and processes used to protect our computer and network systems. Examine the tools and techniques used for traffic and intrusion analysis including hacker tools, methods, scripts and automated hacking malware employed in today's cyber environment. Investigate the processes and procedures used by hackers, along with corresponding countermeasures that can be employed to protect against such attacks. Lab fee \$2. Prereq(s): *CTS 140.* Note: *A working knowledge of Linux is highly recommended prior to taking this course.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify and utilize the phases of a penetration testing attack

- Utilize both passive and active footprinting/intelligence gathering
- Perform different scanning techniques

Understand and exploit system vulnerabilities

- Crack passwords and implement countermeasures for password cracking
- Implement spyware and keylogger countermeasures
- Examine methods attackers use to cover tracks
- Execute applications remotely and describe countermeasures that should be implemented

Perform packet analysis

- Explain TCP operation (sequence numbers, port numbers, control messages, etc).
- Describe UDP operation
- Differentiate between IPv4 and IPv6

Troubleshoot network and security problems

- Utilize network sniffing tools
- Identify and employ a network troubleshooting methodology

Perform vulnerability analysis

- Install, configure and run a vulnerability analyzer
- Analyze vulnerability analyzer reports
- Identify system vulnerabilities and provide risk management recommendations

Describe the concepts and issues related to Risk Analysis

- Explain the concepts of Risk Analysis
- Describe the methods of Risk Analysis
- Describe the techniques to minimize risk

Implement Network Protection Systems

- Configure and implement an Intrusion Detection System
- Explain the purpose of routers, firewalls, and honeypots

CTS 243 - Cloud Operations

3 credit hours - Two hours lecture and two hours lab weekly; one term

Learn entry-level DevOps, support, and cloud operations roles. Emphasize best practices in Cloud operations and recommended design patterns. Learn how to solve problems and troubleshoot various scenarios, automate and create repeatable deployments of networks and systems, cover specific features and tools related to configuration and deployment. Build a variety of infrastructures via guided, hands-on activities in Amazon Web Services. Lab fee \$40. Prereq(s): *CTS 237 with a grade of C or better or permission of the academic chair.* Note: *The course also addresses the core material of the AWS SysOps Administrator - Associate exam.*

Course Outcomes

- Understand a Cloud infrastructure as it relates to system operations, such as global infrastructure, core services, and account security.
- Use the Command Line Interface, and understand additional administration and development tools.
- Manage, secure, and scale compute instances, configurations, and databases.
- Identify container services that are available for serverless computing.
- Build virtual private cloud networks.

CTS 260 - IP Telephony - Quality of Service (QoS)

3 credit hours - Three hours weekly; one term.

Formerly CSI 264 - IP Telephony - Quality of Service (QoS) Understand and deploy QoS technologies. Discuss the basic concepts and performance issues driving the need for QoS in the network and apply QoS in the network. Implement the various QoS mechanisms and technologies to address common performance issues. Lab fee \$100. Prereq(s): *CTS 241 or permission of CTS department chair.* Note: *This course is intended for students with a data technology background as well as those currently working in the telephone or computer industries.*

CTS 265 - CCNP ROUTE: Implementing IP Routing

4 credit hours - Three hours of lecture and two hours of laboratory weekly one term.

Formerly CSI 272 - CCNP ROUTE: Implementing IP Routing Acquire skills to implement, monitor, and maintain routing services in an enterprise network. Learn how to plan, configure, and verify the implementation of complex enterprise LAN and WAN routing solutions, using a range of routing protocols in IPv4 and IPv6 environments. Configure secure routing solutions to support branch offices and mobile workers. Demonstrate the use of hands-on simulation learning to reinforce configuration skills. Lab fee \$100. Prereq(s): *CTS 231 or Proof of CCNA Certification or permission of CTS department chair.*

Course Outcomes

Implement, monitor, and maintain routing services in an enterprise campus network.

- Create, document and execute an Implementation Plan
- Review IP Routing Principles

Plan, configure and verify the implementation of complex enterprise LAN and WAN routing solutions

- Define EIGRP, OSPF and BGP Terminology and Operations.
- Configure and Verify EIGRP in an Enterprise WAN
- Configure, Verify and Optimize EIGRP Authentication
- Configure, Verify and Optimize OSPF Authentication

Implement IPv6, EIGRP, BGP and OSPF in an enterprise network

- Define EIGRP, OSPF and BGP Terminology and Operations.
- Implement IPv6 in an Enterprise Network
- Configure and Verify IPv6 Addresses
- Configure and verify advanced OSPF features

Configure secure routing solutions to support branch offices and mobile workers.

- Plan the Branch Office Implementation
- Plan for the Mobile Worker Implementation
- Route traffic to the Mobile Worker
- Define and implement Path Control

CTS 266 - CCNP SWITCH: Implementing IP Switching

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 273 - CCNP SWITCH: Implementing IP Switching Acquire skills to implement, monitor and maintain switching in converged enterprise campus networks. Learn how to plan, configure, and verify the implementation of complex enterprise switching solutions. Implement and configure the secure integration of VLANs, WLANs, voice, and video into campus networks. Utilize hands-on simulation learning to complete comprehensive labs to reinforce configuration skills. Lab fee \$100. Prereq(s): CTS 265 or permission of CTS department chair.

Course Outcomes

Implement the secure routing solutions to support branch office and mobile works

- Analyze an Enterprise Campus Design
- Implement VLAN's in a campus network
- Implement Spanning Tree Protocol and Rapid Spanning Tree Protocol

Plan, configure and verify the implementation of complex enterprise switch solutions

- Configure InterVlan Routing
- Implement Dynamic Host Configuration
- Secure the campus infrastructure
- Prepare the campus infrastructure to support wireless, voice and video

Plan and execute regular network maintenance to monitor and maintain complex enterprise routed and switched IP network

- Describe and protect against MAD layer attacks
- Describe and protect against VLAN attacks
- Describe and protect against Spoofing attacks
- Troubleshoot performance and connectivity

CTS 267 - CCNP TSHOOT: Maintaining and Troubleshooting IP Networks

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Formerly CSI 274 - CCNP TSHOOT: Maintaining and Troubleshooting IP Networks Acquire skills to monitor and maintain complex, enterprise routed and switched IP networks. Learn skills that include the planning and execution of regular network maintenance, as well as support and troubleshooting using technology-based processes and best practices, based on systematic and industry-recognized approaches. Demonstrate using hands-on simulation learning to complete comprehensive labs to reinforce configuration skills. Lab fee \$100. Prereq(s): CTS 266 or permission of CTS department chair.

Course Outcomes

Perform network troubleshooting using technology-based processes and best practices, based on systematic and industry recognized approaches.

- Troubleshoot processes for complex enterprise networks
- Maintain and troubleshoot campus switched networks
- Maintain and troubleshoot routing solutions
- Troubleshoot addressing service
- Troubleshoot network performances issues
- Troubleshoot converged networks
- Maintain and troubleshoot network security

CTS 270 - Information Security Management

3 credits - Three hours lecture and directed laboratory weekly; one term.

Formerly CSI 270 - Information Security Capstone Learn the 10 domains of information systems security relevant to the CISSP professional certification. Undertake an in-depth review of all aspects of security as they relate to the following domains: Security Management Practices, Access Control Systems and Methodology, Security Architecture and Models, Physical Security, Telecommunications, Network and Internet Security, Cryptography, Business Continuity Planning, Law, Investigation and Ethics, and Applications and Systems Development Operations Security. Lab fee \$25. Prereq(s): CTS 140.

Course Outcomes

Students are challenged to demonstrate a thorough understanding of Information Assurance through a study of the Ten Certified Information System Security Professional (CISSP) Security Domains.

- Describe important Security Management Practices.
- Explain Access Control Systems and their processes.
- Describe the various Security Architecture and Models.
- Explain various Physical Security mechanisms.
- Discuss Telecommunications security approaches.
- Explain Cryptograph applications for security.
- Explain the concepts of Business Continuity Planning.
- Identify security Laws, Forensic Investigation and security Ethics
- Discuss Applications and Systems Development security.
- Explain the concepts of Operations Security.

CTS 275 - Internship Experience in Computer Technologies 1

3 credit hours -

Formerly CSI 275 - Internship Experience in Computer Technologies 1 Earn college credit for an internship that provides the opportunity to apply to an actual work experience the concepts and skills learned across multiple courses in a computer technology program. Students learn how the many different aspects of their program operate in concert. Learn the technical and human factors that are critical in computer technology work environments. Prereq(s): (1) *Successful completion of 12 credit hours of CTS courses;* (2) *minimum grade point average of 2.5; and (3) permission of CTS department chair prior to enrollment.*

CTS 276 - Internship Experience in Computer Technologies 2

3 credit hours -

Formerly CSI 276 - Internship Experience in Computer Technologies 2 Earn college credit for a second computer technology internship that provides the opportunity to apply to an actual work experience the concepts and skills learned across multiple courses in a computer technology program. Prereq(s): (1) *Successful completion of CTA 275; (2) minimum grade point average of 2.5; and (3) permission of CTS department chair prior to enrollment.*

CTS 280-299 - Special Topics in Computer Technologies

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Formerly CSI 280-299 - Special Topics in Computer Technologies Current or specialized topics in computer technologies. Topics include new programming languages, software development environments, new personal computer application packages and special areas of computer usage such as telecommunications and local area networks. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$5-100. Prereq(s): *Will vary depending on course offering.*

Criminal Justice and Law Enforcement

CJS 109 - Police Discipline and Organization

1 credit hour - 15 hours; one week.

Learn policies and standards regarding academic and conduct performance, comprehensive testing, and training requirements of the Anne Arundel Community College Police Entrance Level Training Program. Develop basic military-style discipline and protocol required in a police organization. Examine military close order drill, rank structure, chain of command, military courtesy and police disciplinary procedures. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon conclusion of this course, the student will be able to:

- Identify the requirements for receiving and maintaining certification as a law enforcement officer in the State of Maryland.
- Identify and describe the consequences of a law enforcement officer performing official duties without a valid certification from the Police Training Commission in the State of Maryland.
- Identify resources which help an officer maintain knowledge of law enforcement work.
- Identify the importance of discipline to an efficient quasi-military organization, such as a police department.

CJS 111 - Introduction to Criminal Justice

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Identify and analyze the interconnectedness between the components of the criminal justice system in the U.S.--to include law enforcement, the courts and correctional operations. Outline the process of justice in the American criminal justice system and how it interfaces with and impacts various populations of people, including people of different socio-economic classes, cultures, genders, and races. Survey and complete a comparative study on the history, development, and philosophy of the criminal justice system. Identify and explain the functions of various local, state, and federal agencies involved in the administration of criminal justice, including the court and trial process. Crosslisted: **Note:** Also offered as CJS 111H; credit is not given for CJS 111 and also CJS 111H. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply the U.S. Constitutional amendments to specific scenarios.
- Discuss the historical development of the U.S. criminal justice system and describe its components and functions.
- Discuss the structure and function of local, state and federal courts.
- Compare and contrast the roles of federal, state and local levels of law enforcement and their respective agencies.
- List and describe the steps of the criminal justice process.
- Analyze criminal justice policies and practices that disproportionately affect minority populations.

CJS 111H - Introduction to Criminal Justice—Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Identify and analyze the interconnectedness between the components of the criminal justice system in the U.S.--to include law enforcement, the courts and correctional operations. Outline the process of justice in the American criminal justice system and how it interfaces with and impacts various populations of people, including people of different socio-economic classes, cultures, genders, and races. Survey and complete a comparative study on the history, development, and philosophy of the criminal justice system. Identify and explain the functions of various local, state, and federal agencies involved in the administration of criminal justice, including the court and trial process. Prereq(s): *Eligibility for Honors courses*. Crosslisted: **Note:** Also offered as CJS 111; credit is not given for both CJS 111H and CJS 111. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply the U.S. Constitutional amendments to specific scenarios.
- Discuss the historical development of the U.S. criminal justice system and describe its components and functions.
- Discuss the structure and function of local, state and federal courts.
- Compare and contrast the roles of federal, state and local levels of law enforcement and their respective agencies.
- List and describe the steps of the criminal justice process.
- Analyze criminal justice policies and practices that disproportionately affect minority populations.

CJS 112 - Police Operations

3 credit hours - Three hours weekly; one term.

Study of line activities of uniformed police with emphasis on patrol. Areas of study include traffic enforcement, investigation, juvenile crime, vice prevention and other operations. Prereq(s): *CJS 111 or permission of institute director*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

CJS 113 – Penology

3 credit hours - Three hours weekly; one term.

Studies the history and philosophy of corrections in federal, state and community systems along with probation, parole and other methods of rehabilitating offenders. Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall and spring

CJS 114 - Probation and Parole

3 credit hours - Three hours weekly; one term.

Study of the origins of probation and parole with emphasis on contemporary approaches to corrections. Topics include pre-sentence investigation, functions and activities of probation officers, evaluation of programs, supervision of offenders and limitations as well as the future of correctional institutions.

CJS 121 - Police Administration

3 credit hours - Three hours weekly; one term.

Studies the principles of management and organization applied to law enforcement agencies. Includes concepts of personnel problems and implications of new technology related to administration and supervision of police departments. Prereq(s): *CJS 112 or permission of institute director*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

CJS 127 - Police Tactics 1

5 credit hours - 75 hours of lecture and 12 hours of laboratory; winter academy term.

RESTRICTED. Open only to Police Academy Option students. Covers topics mandated by the Maryland Police Training Commission for pre-employment certification. Topics include use of force, use of baton, arrest tactics and handling domestic violence. Attendance in uniform is mandatory and satisfactory performance levels must be achieved for police certification. Lab fee \$20. Prereq(s): *CJS 112, LGS 215/CJS 215, LGS 216/CJS 216, CJS 222, EMT 104 or HEA 150 and approval from the Police Academy Director*. Coreq(s): *CJS 109, CJS 128, CJS 219*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate successful completion of the mandated training objective requirements as established by the Maryland Police Training Commission.
- Demonstrate basic understanding of patrol duties to include areas of basic control tactics: use of force, firearms, handcuffing, police baton, and the legal aspects of using these instruments.
- Qualify for entry-level police officer employment when minimum skill levels are achieved.
- Meet the instructional requirements of the Maryland Police Training Commission's mandated training standards.

CJS 128 - Police Tactics 2

5 credit hours - 75 hours of lecture and 12 hours of laboratory; winter academy term.

RESTRICTED. Open only to Police Academy Option students. Covers topics mandated by the Maryland Police Training Commission for pre-employment certification as a sworn law enforcement officer. Topics include arrest, search, securing suspects and traffic stops. Emphasizes officer safety and survival. Attendance in uniform is mandatory and satisfactory performance levels must be achieved for police certification. Lab fee \$20. Prereq(s): *CJS 112, LGS 215/CJS 215, LGS 216/CJS 216, CJS 222, EMT 104 or HEA 150, and approval from the Police Academy Director*. Coreq(s): *CJS 109, CJS 127, CJS 219*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate successful completion of the mandated training objective requirements as established by the Maryland Police Training Commission.
- Demonstrate basic understanding of patrol duties to include areas of basic control tactics: vehicle arrests, search techniques, transporting prisoners, traffic stops, and alarm responses.
- Qualify for entry-level police officer employment when minimum skill levels are achieved.
- Meet the instructional requirements of the Maryland Police Training Commission's mandated training standards.

CJS 130 - Law Enforcement and the Community

3 credit hours - Three hours weekly; one term.

Studies current efforts of police to achieve an effective working relationship with the community. Topics include police image, crisis areas, public and police attitudes and community relations.

CJS 131 - Fundamentals of Private Investigation

3 credit hours - Three hours weekly; one term.

Study of the functions and responsibilities of private detectives and their relationship to private industry. Includes domestic and insurance investigation, undercover and surveillance activities and other private police activities. Legal aspects include both state and federal law along with limitations established by the Federal Privacy Act. Lab fee \$15.

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Participate in a practical moving and fixed surveillance project.
- Collect, process and photograph evidence at a simulated crime scene.

CJS 132 - Juvenile Delinquency

3 credit hours - Three hours weekly; one term.

Analyze how society labels, processes, controls and treats juvenile offenders. Review theories of causality; methods of classification; rates, types and trends of juvenile delinquency; and evolving legal approaches. Discuss special areas including violence, drug use and gang behavior. Prereq(s): *SOC 111 or PSY 111 and eligibility for ENG 101 or ENG 101A.* Crosslisted: *Also offered as SOC 132; credit will be not given for both CJS 132 and SOC 132.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the nature and extent of delinquency locally, nationally, and world-wide.
- Discuss different theoretical approaches to the causation of delinquency and delinquent trajectories.
- Critically evaluate various problem areas in delinquency and propose appropriate solutions.

CJS 135 - Organized Crime

3 credit hours - Three hours weekly; one term.

Provides a historical examination and analysis of organized crime worldwide. Explores the history of organized crime in the United States. Explores the socioeconomic and political aspects of organized crime. Examines organized crime as a social subculture. Examines the legislative, judicial and law enforcement response to organized crime. Includes an examination of organized crime's role in unions and labor movements, organized crime and the media, organized crime commissions and organized crime internal and external policies. Note: *Credit will not be given for CJS 135 and also LGS 135.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

CJS 136 - History of Homicide

3 credit hours - Three hours weekly; one term.

Provides a historical examination and analysis of homicide. Explores the differences between homicide and murder and analyzes the different degrees of murder. Examines theories on the motives for homicide, murder, mass murder and serial murders. Studies the historical application of the law to homicide and murder cases. Explores how well the criminal justice system works with homicide and other capital crimes. Examines the detection, investigation and prosecution of murder cases, including the analysis of forensic evidence in homicide cases to determine cause of death. Note: *Credit will not be given for CJS 136 and also LGS 136.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Define homicide.
- Define murder.
- Describe and discuss the history of homicide.
- Describe and discuss the history of murder and manslaughter.
- Describe and discuss the trends and patterns of homicide in the 20th century United States.
- Describe and discuss theories of homicide.
- Describe and discuss mass murderers.
- Describe and discuss serial murderers.
- Describe and discuss homicides among selected populations.
- Describe and explain laws relating to homicide and the crime of murder.
- Describe and discuss methods of detection, investigation and prosecution in murder cases.

CJS 137 - Clinical Forensics

3 credit hours - Three hours weekly; one term.

Introduces students and professionals to the principles and practices of clinical forensics. Examines the history of violence, the causes and consequences of violence. Discusses methods utilized to identify victims of violent behavior and patterns of injuries consistent with intentional injurious acts. Provides a multidisciplinary approach to the management of those persons who have been injured due to violence. Examines forensic science techniques associated with child abuse, partner abuse, elder abuse and sexual violence. Explores clinical forensic concerns and methods used during crime scene investigations. Includes violence prevention techniques. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

CJS 170 - Digital Forensics 1

3 credit hours - Three hours of lecture and directed laboratory weekly; one term.

Formerly CJS 207 - Cyber Forensics 1 Explore a professional approach to computer and cybercrime investigations. Learn to identify potential electronic evidence, create strategies to locate and recover evidence, and perform forensic analysis. Discuss legal and ethical considerations of computer crime investigations. Lab fee \$60. Prereq or Coreq: CTS 107; or CTS 105 prior to Fall 2019. Crosslisted: Also offered as CTS 170; credit is not given for CJS 170 and CTS 170.

Course Outcomes

Extract key concepts from cases and statutes.

Review computer intrusion laws, intellectual property laws, trade secret offenses, system integrity offenses and misuse offenses.

Identify vulnerabilities and assess risks in forensic investigations.

Apply a systematic approach to digital forensic investigations, including potential risks and mitigations.

Plan a forensic investigation.

Preserve, extract and analyze digital forensic evidence.
Prepare and submit documentation of forensic analysis.
Prepare a forensic report.
Prepare a presentation of forensic findings.

Identify where evidence may reside.

Identify operating system file systems.
Explain how file systems store data.
Identify data of potential interest to a forensic investigation

Use software tools to access evidence and conduct forensic analysis.

Use open source and commercial computer forensic tools for evidence acquisition and analysis.
Prepare a presentation of forensic findings.

Explain legal limitations on searches and seizures of evidence.

Explain Best Evidence.
Create a Chain of Custody report.
Explain the fourth, fifth and sixth amendment as applied to digital forensic investigations.

CJS 200 - Multicultural Law Enforcement

3 credit hours - Three hours weekly; one term.

Explore practical and theoretical perspectives in the field of multicultural law enforcement. Address the understanding of culture, race and ethnicity in the law enforcement field as it pertains to multicultural communities. Focus on immigration and unauthorized migrants in the United States; recruitment and retention of women and minorities; the multifaceted dimensions of diversity and its impact on law enforcement; issues related to multiracial census groups; native American tribal police; information on the mentally and physically challenged; and, multicultural issues related to terrorism, homeland security and disaster preparedness. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Multicultural Communities: Challenges in Law Enforcement.

Diversity in Society.
Dimensions of Diversity.
Communication and strategies for improving law enforcement in multicultural communities.
Police understanding of Cultural Groups.

Issues within the Law Enforcement Workforce.

A Changing Workforce.
Ethnic and Racial Issues within the Workforce.
Language Barriers in Employment.

Recruitment, Retention, and Promotion in Law Enforcement.

Recruitment of a Diverse Workforce.
Selection and Hiring Practices.
Retention and Promotion of a Diverse Workforce.
Interviewing and Data-Gathering Skills for Ongoing Improvements.
Language Barriers in Employment.

Cross-Cultural Communication.

Attitudes toward Non-or Limited-English Speakers.
Cross-Cultural Communication for minorities.
Understanding Cross-Cultural Communication for Law Enforcement.
Male-Female Communication in Law Enforcement.

Law Enforcement contact with Asian/Pacific Americans, African Americans, Latino/Hispanic Americans, Arab Americans/other Middle Eastern Groups, Native Americans and Americans with Alternative lifestyles.

Discuss unequal treatment due to racism and sexism.
Minorities and their Ethnicity & Culture Defined.
Typologies and stereotypes explained.
Demographics, Issues of Identity and Historical Information on minorities.
Cultural influences in Law enforcement and Racial Profiling.

Multicultural Law Enforcement issues in Terrorism and Homeland Security.

Myths and Stereotypes about Terrorists.
Local and International issues for Law Enforcement.

Cultural Effectiveness for Law Enforcement.

The Future of Peacekeeping Strategies in Multicultural Communities.
Crime Prevention among Minorities and Immigrants.
Law Enforcement among People with Mental Illness and Physical Challenges.
Using Technology and Innovation for Law Enforcement.
Court issues and Litigation in Law Enforcement.

CJS 203 - Principles of Campus Security

3 credit hours - Three hours weekly; one term.

Explore the assorted methods of providing school and campus security. Study methods including but not limited to forming campus safety groups, conducting security assessments, assessing environmental factors that influence the implementation and sustenance of campus security initiatives, and the use of electronic safety systems. Study methods designed to identify, suppress and eradicate disruptive activity from a campus environment. Explore methods that encourage collaborative approaches to maintain a safe and productive learning environment. Prereq or Coreq: *CJS 111 or HLS 111.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Interpret and apply essential information.

Identify valuable information.
Identify strategies to develop sound campus/school security policies.
Apply information to case scenarios, simulations and table-top exercises.
Identify basic strategies to maintain a safe campus environment.
Write valid and reliable reports, summaries and documents.

Articulate ideas and opinions based on credible facts and information.

Apply proper decision making strategies to case studies.
Articulate technology and other devices that enhance the safety of the school campus.
Articulate environmental enhancements that can improve and maintain campus safety.
Apply information to develop collaborative strategies to establish and maintain a safe campus/school environment.
Outline the cultural and political challenges that impact security policy and procedures.

CJS 206 – Cybercrime

3 credit hours - Three hours weekly; one term.

Focus on technology-based crimes. Explore cyber offenses including information warfare, cyber terrorism, information theft, data corruption and disruption of service. Discuss computing devices as instruments furthering exploitation of children, organized crime and other criminal acts. Identify vulnerabilities within national and private infrastructures, assess risks and structure security measures. Crosslisted: *Also offered as CJS 206H; credit not given for both CJS 206 and CJS 206H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply key concepts from cases and statutes to resolving cybercrime issues.
- Resolve cybercrime jurisdictional questions involving law enforcement and state/federal court systems.
- Identify risks cyber criminals and cyber terrorists pose to the nation's infrastructure.
- Describe the necessary partnerships between private citizens, private organizations and government necessary to combat cybercrime.
- Identify crimes involving the use of computer technology.
- Identify crimes in which data theft and system and data destruction are targeted.
- Analyze application of statutory and common law to technology-based crimes.
- Conduct risk analysis of computer systems and infrastructure.

CJS 206H - Cybercrime – Honors

3 credit hours - Three hours weekly; one term.

This is an Honors course. Focus on technology-based crimes. Explore cyber offenses including information warfare, cyber terrorism, information theft, data corruption and disruption of service. Discuss computing devices as instruments furthering exploitation of children, organized crime and other criminal acts. Identify vulnerabilities within national and private infrastructures, assess risks and structure security measures. Prereq(s): *Eligibility for Honors courses.* Crosslisted: *Also offered as CJS 206; credit not given for both CJS 206H and CJS 206.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply key concepts from cases and statutes to resolving cybercrime issues.
- Resolve cybercrime jurisdictional questions involving law enforcement and state/federal court systems.
- Identify risks cyber criminals and cyber terrorists pose to the nation's infrastructure.
- Describe the necessary partnerships between private citizens, private organizations and government necessary to combat cybercrime.
- Identify crimes involving the use of computer technology.
- Identify crimes in which data theft and system and data destruction are targeted.
- Analyze application of statutory and common law to technology-based crimes.
- Conduct risk analysis of computer systems and infrastructure.

CJS 207 - Digital Forensics 2

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Formerly CJS 208 - Cyber Forensics 2 Practice digital forensics response and examination techniques. Recover and analyze digital evidence using industry standard commercial and open sources tools. Evaluate operating systems and file systems to locate and analyze evidence using various Windows, Linux and Mac command line and GUI tools. Use investigation results to develop comprehensive forensic reports. Lab fee \$60. Prereq(s): *CJS 170 or CTS 170.* Crosslisted: *Also offered as CTS 207; credit is not given for both CJS 207 and also CTS 207.*

Course Outcomes

Explore the functionality of the Windows OS as it relates to data storage and evidence.

- Identify Windows FAT and NTFS hard disks, media and file systems.
- Research the location of Windows artifacts.

Deduce how Windows artifacts were created in test environment.
Identify and locate Windows registry files.

Explore the functionality of the Linux OS as it relates to data storage and evidence.

Identify Linux ext formatted hard disks, media and file systems.
Research the location of Linux artifacts.
Deduce how Linux artifacts were created in a test environment.

Explore the functionality of the Macintosh OS as it relates to data storage and evidence.

Identify Mac OS HFS formatted hard disks, media and file systems.
Research the location of Mac OS artifacts.
Deduce how Mac artifacts were created in a test environment.

Practice preserving, handling and documenting digital evidence.

Compare legal and societal considerations of American and European forensic practices.
Preserve, extract and analyze digital forensic evidence.
Prepare and submit documentation of forensic analysis.
Prepare a forensic report.
Prepare a presentation of forensic findings.

Identify processes and communications in a network environment.

Identify system, security and event logs.
Recognize artifacts from at least three different web browsers.
Identify and locate Windows registry files.

CJS 214 - Physical Conditioning for Law Enforcement and Firefighter/Rescue Service Personnel

1 credit hour - Two hours weekly; one term.

Enables prospective law enforcement officers and firefighter/rescue service personnel to develop physical fitness for their fields. Intensive fitness regimes prepare for the rigorous physical demands of these occupations. Emphasize muscular strength and endurance training, cardiovascular endurance conditioning and flexibility exercises. Work on individual weight training programs as well as participate in group conditioning activities. Crosslisted: *Also offered as PHE 214; credit is not given for both CJS 214 and PHE 214.*

CJS 218 - Criminal Justice Communications

3 credit hours - Three hours weekly; one term.

RESTRICTED. Open only to Police Academy Option students. Covers topics mandated by the Maryland Police Training Commission for pre-employment certification as a sworn law enforcement officer. Topics include note taking and police reports and how these reports are used within the criminal justice system and communication with the public and the court system. Prereq(s): *CJS 109, CJS 112, CJS 127, CJS 128, LGS 215 /CJS 215, LGS 216 /CJS 216, CJS 219, CJS 222, EMT 104 or HEA 150 and approval from the Police Academy Director.* Coreq(s): *CJS 220, CJS 225, CJS 226, PHE 214.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

CJS 219 - Advanced Patrol Operations

3 credit hours - 45 hours of lecture; winter academy term.

RESTRICTED. Open only to Police Academy Option students. Covers topics mandated by the Maryland Police Training Commission for pre-employment certification as a sworn law enforcement officer. Topics include traffic stops, effective use of patrol vehicle, documentation of traffic offenses and responding to crimes in progress. Prereq(s): *CJS 112, LGS 215/CJS 215, LGS 216/CJS 216, CJS 222, EMT 104 or HEA 150 and approval from the Police Academy Director.* Coreq(s): *CJS 109, CJS 127, CJS 128.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Winter

CJS 220 - Emergency Vehicle Operations Course (EVOC)

2 credit hours -

RESTRICTED. Open only to Police Academy Option students. Covers classroom, simulator and actual driving practice mandated by the Maryland Police Training Commission for pre-employment certification as a sworn law enforcement officer. It is a capstone course of our Police Academy area of study and features classroom lecture, electronic simulator use and hands-on driver training. Students undergo an extensive defensive driving and emergency vehicle operation course. Included are driver attitude, defensive awareness and presence of mind, driver skills, physical forces that act on a vehicle, and safety of operator and the public in emergency response, pursuit driving and traffic enforcement stops. Lab includes operation of a police vehicle on a skill pad, skid pad, urban grid and a highway response course. Prereq(s): *CJS 109, CJS 112, CJS 127, CJS 128, LGS 215 /CJS 215, LGS 216/CJS 216, CJS 219, CJS 222, EMT 104 or HEA 150 and approval from the Police Academy Director.* Coreq(s): *CJS 218, CJS 225, CJS 226, PHE 214.* Note: *Class is restricted to AACC Police Academy students and will meet at a Driver Training Facility (DTF) of the Maryland Police and*

Corrections Training Commission (MPCTC) at Sykesville, Maryland. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the components and importance of defensive driving.
- Identify driving attitudes or conditions that contribute to traffic accidents.
- Identify activities which most frequently contribute to collisions.
- Identify qualities of a good driver, their own limitations.
- Identify hazards of night and reduce visibility driving.
- Identify and recognize the importance of knowing traffic conditions which affect stopping distances.
- Identify the advantages, disadvantages, elements and limitations of high speed pursuit.
- Identify officer liability and exception to liability when operating an emergency vehicle.
- Demonstrate ability to gain control of various vehicle skids under various weather and road conditions.
- Demonstrate ability to maneuver a vehicle in restricted areas.
- Demonstrate ability to operate and control a police vehicle during a control high speed pursuit.
- Demonstrate techniques of accident avoidance.
- Describe circumstances and process to notify supervisor of damage, need for maintenance and repair.
- Perform first line maintenance on the patrol vehicle.
- Demonstrate the use of spot light, headlight, and flashlights for an area physical check.
- Identify the hazards and benefits of using police equipment while patrolling. (siren, strobe, radio)
- Demonstrate the procedure to check condition of patrol vehicle and its assigned equipment.
- Describe the procedures and circumstances for hazardous materials or emergency vehicle escort.

CJS 222 - Investigation and Criminalistics

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Studies fundamentals of criminal investigation, including collection of evidence, interrogation, basic investigative techniques and processing of physical evidence. Laboratory phase of the course consists of practical work with a variety of criminalistics materials. Lab fee \$20. Prereq(s): *CJS 111 or permission of institute director.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

CJS 224 – Criminology

3 credit hours - Three hours weekly; one term.

Study the cultural and historical influence of crime. Explore topics relating to the definition and meaning of crime and criminality; problems of official data; theoretic approach to causes of crime; and social and legal aspects of the criminal justice system with emphasis on roles of police, lawyers, judges, public and victims. Examine evolving theories and approaches to punishment, ranging from probation to capital punishment. Prereq(s): *SOC 111 or PSY 111 and eligibility for ENG 101 or ENG 101A.* Crosslisted: *Also offered as SOC 224; credit will not be given for both CJS 224 and SOC 224.*

Course Outcomes

- Discuss the law as a social construction that changes over time in accordance with social norms, values, and power structures.
- Identify trends in the demographic and social characteristics of criminal offender and crime victim populations.
- Discuss the special manifestations of crime--criminal careers, conventional crime, public order crime, organized crime, occupational crime, as well as habitual and abnormal offenders.
- Critically evaluate the effectiveness of social policies regarding corrections, incarceration, and treatment of offenders.
- Evaluate the methods, results, and conclusions of criminological research.
- Explain major theories of the causes and consequences of crime.

CJS 225 - Criminal Justice Ethics

3 credit hours - Three hours weekly; one term.

Provides a historical analysis of the moral and ethical issues encountered in policing, corrections, probation, parole, prosecution and criminal defense. Examines the consequences of ethical transgressions in the various areas of criminal justice practice. Topics include history of the criminal justice system, regulation of criminal justice professionals, professional discipline, police brutality, police misconduct, police-community relations, correctional misconduct and violations of policy and law. Explores the process for

investigation of acts of misconduct and unethical behavior in the criminal justice field. Crosslisted: *Also offered as CJS 225H; credit not given for both CJS 225 and CJS 225H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Define ethics, morals, norms, and values.
2. Define and describe ethical relativity and ethical absolutism.
3. Describe, explain and analyze the history of the criminal justice system.
4. Describe and analyze the structure and dynamics of criminal justice agencies.
5. Define oaths, rules, regulations, codes and laws.
6. Define due process of law.
7. Describe, explain and analyze the law enforcement code of ethics.
8. Describe, explain and analyze the American Correctional Association Code of Ethics.
9. Describe, explain and analyze the Federal Probation Officer's Association Code of Ethics.
10. Describe, explain and analyze police corruption.
11. Describe and explain use of force.
12. Describe, explain and analyze police brutality.
13. Describe, explain and analyze the concept of whistleblowing in criminal justice.
14. Describe, explain and analyze civilian review boards.

CJS 225H - Criminal Justice Ethics – Honors

3 credit hours - Three hours weekly; one term.

This is an Honors course. Provides a historical analysis of the moral and ethical issues encountered in policing, corrections, probation, parole, prosecution and criminal defense. Examines the consequences of ethical transgressions in the various areas of criminal justice practice. Topics include history of the criminal justice system, regulation of criminal justice professionals, professional discipline, police brutality, police misconduct, police-community relations, correctional misconduct and violations of policy and law. Explores the process for investigation of acts of misconduct and unethical behavior in the criminal justice field. Prereq(s): *Eligibility for Honors courses.* Crosslisted: *Also offered as CJS 225; credit not given for both CJS 225H and CJS 225.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Define ethics, morals, norms, and values.
- Define and describe ethical relativity and ethical absolutism.
- Describe, explain and analyze the history of the criminal justice system.
- Describe and analyze the structure and dynamics of criminal justice agencies.
- Define oaths, rules, regulations, codes and laws.
- Define due process of law.
- Describe, explain and analyze the law enforcement code of ethics.
- Describe, explain and analyze the American Correctional Association Code of Ethics.
- Describe, explain and analyze the Federal Probation Officer's Association Code of Ethics.
- Describe, explain and analyze police corruption.

Describe and explain use of force.
Describe, explain and analyze police brutality.
Describe, explain and analyze the concept of whistleblowing in criminal justice.
Describe, explain and analyze civilian review boards.

CJS 226 - Traffic and Public Safety

3 credit hours - Three hours weekly; one term.

Covers topics mandated by the Maryland Police Training Commission for certification as a sworn law enforcement officer. Topics include Maryland Motor Vehicle Law, enforcement of DWI regulations, traffic violations and accident investigation and reporting. Prereq(s): *CJS 112*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

CJS 228 - Practices in Social Work and Counseling with Inmate Populations

3 credit hours - Three hours weekly; one term.

Examine the most effective approaches used in prisons to assist offenders with social, behavioral and psychological development. Begin with a historical explanation of philosophies and practices in correctional rehabilitation. Concludes by examining the effects of imprisonment on offenders and their families, including the impact on the quality of life and the potential for favorable transition back into the community. Study and engage in counseling techniques and social work practices for group, individual and family therapy for institutional compliance and aftercare programs. Note: *Credit will not be given for CJS 228 and also HUS 228*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Describe rehabilitation in the context of inmate reform.
Outline the evolution of inmate rehabilitation.
Identify the leading practitioners and social periods that contributed to the theories in inmate rehabilitation.
Illustrate characteristics and treatment needs of inmate populations.
Analyze the most common effects imprisonment has on inmates, families, and the community.
Examine the legal aspects of inmate programming in counseling, education and human services.
Apply comprehensive case management techniques to assist inmates after release.
Design an effective treatment plan for inmate aftercare.
Apply the most effective and commonly used group and individual counseling techniques for various inmate populations.
Illustrate aspects of community corrections that specifically lend to the rehabilitation of inmates.

CJS 229 - Women, Crime and Prison

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Explores the historical development of women's roles in America and their influences on social deviance and crime committed by women. Provides a comparative analysis of male and female offenders that includes demographics, criminal inclinations, causes of crime, law enforcement intervention, and conviction and sentencing patterns. Features a special review on girls, delinquency and the distinctive way the juvenile justice system handles the youthful female offender. Study the sociology of prisons, management, treatment and community reintegration unique to female offenders. Note: *Credit will not be given for CJS 229 and also GSS 229*.

Course Outcomes

Upon successful completion of this course, the student will be able to:

Trace the historical development of women's roles in America.
Describe the social and political influences on deviance and crime.
Compare and contrast characteristics of criminal behavior between male and female offenders.
Explain the disparity in sentencing and conviction patterns between genders.
Outline the nature of delinquency with girls.
Characterize the management practices in prisons and jails.
Review the juvenile justice system's approach to girl delinquency.
Apply effective therapy and treatment programs for female offenders.
Describe the conflict between victimization vs. criminal behavior in matters of domestic violence.

CJS 230 - Presidential Assassinations

3 credit hours - Three hours weekly; one term.

Survey the presidential assassinations and assassination attempts and their effect on history. Topics include Lincoln, Garfield, McKinley and Kennedy assassinations including the controversies surrounding them.

CJS 231 - Juvenile Justice

3 credit hours - Three hours weekly; one term.

This course thoroughly examines, compares and contrasts the juvenile and criminal justice systems regarding the management of youths. Students trace the historical development and original intent of the juvenile justice systems; laws and punishment policies specifically for juvenile offenders; traditional and contemporary sanctions; management systems for incarcerated juveniles separate and along side of adult criminals; long and short-term impacts of incarceration on youths; intermediate and community sentences; and finally, the controversies surrounding juvenile executions in America. Prereq(s): *CJS 111 and CJS 113 or SOC 224.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

Illustrate the general causes of child, adolescent and young adult deviance and criminal behavior.

Apply facts, techniques, practices and rules to "real-life" scenarios for desirable results.

Outline basic human needs.

Describe the formulation of society and the process of maintaining order with respect to laws and public policy.

Outline the history of the American Juvenile Justice System.

Review the formulation of laws, government and public policy.

Evaluate the potential of various remedies to problems.

Survey significant and political eras that influenced the direction of juvenile justice.

Describe the critical social and political events in history that influenced the juvenile justice system.

Survey, compare and contrast the similarities and differences between national and international cultures in the care, custody and control of juvenile offenders.

Outline the history of juvenile justice.

Define the roles of law enforcement regarding juvenile custody.

Distinguish the interdependence between the criminal and juvenile justice disciplines to include purposes, effects, policies and basic operations.

Describe the specific functions of law enforcement when interacting with juveniles.

Identify and properly use specific terms of the juvenile court system.

List the jargon, concepts and terms specifically used in juvenile justice.

Trace the juvenile justice adjudication process.

Describe the process from detention to deposition.

Distinguish between the management practices for juvenile offenders in both the adult and juvenile correctional systems.

Compare and contrast procedural due process of law in both systems.

Explain the effects of institutionalization upon juvenile offenders.

Identify critical behaviors and attitudes reflective of institutionalization.

List the consequences, both positive and negative, of institutionalization.

Summarize the influences of education, vocational training and character development on the prevention and intervention of juvenile crime.

Communicate the greater influences of education toward preventing delinquency and activity with children.

Outline the basic theories and techniques of job development for children and youth.

CJS 232 - Juvenile Law

3 credit hours - Three hours weekly; one term.

Study historical and current social and legal policies governing the rights, protection and punitive measures of child offenders, family and other guardianship, and management in the criminal and juvenile justice systems. The integration of law, service delivery and criminal justice management is emphasized. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Apply laws and rules to real and replicated case law.

Differentiate laws that govern the detainment and adjudication of delinquents.

Accurately apply laws to cases pertaining to the detainment and adjudication of delinquents.

Chart the historical evolution of significant laws and social policies governing child protection, privileges and penalties for violations of the law.

Describe the purposes of the juvenile justice system and pertinent laws compared to the adult criminal justice system.

Illustrate discrepancies between the ideal and real juvenile justice networks.

Identify critical laws and policies governing the service-deliveries of juveniles in correctional settings.

Explain legal definitions, restrictions and practices for providing services to children in residential and community settings.

Distinguish between school programs, restorative justice programs, children and family services, federal programs and other divergent programs.

Identify the critical state and local policies and procedures governing the management of juveniles in various correctional settings.

Express the legal purpose and obligations of the Maryland Department of Juvenile Services according to the COMAR.

Outline the various residential and community programs delivered by the Maryland Department of Juvenile Services.

Contrast the legal practices of offender detainment between juvenile and adult correctional settings.

Recognize specific laws restricting and extending the legal privileges of guardians.

Apply fact, techniques, practices and rules to "real life" scenarios for desirable results.

Review and make inferences from legal documents and abstracts, studies and case laws.

Survey the differences and similarities between state and international laws governing child protection, privileges and penalties.

Examine global events, changes, influences and progress.

Compare and contrast events with national and local occurrences in juvenile law.

Analyze child court testimonies, rights and restrictions in the use of child witnesses.

Evaluate, compare and contrast scientific/forensic data and information.

Outline the responsibilities and practices of defense counsel for children and youth.

Outline the responsibilities and relationships between the courts and law enforcement.

Examine laws and policies governing various child protective services, i.e. social services, foster care adoption agencies.

Analyze legal issues surrounding physical and sexual abuse of children.

Review intervention and protection responsibilities and obligations of the courts and child services agencies.

CJS 233 - Forensic Psychology and Victimology

3 credit hours - Three hours weekly; one term.

A study of crime victims and the extent of their participation in the crime against them. Analyzes the responses to victimization from law enforcement, the courts and correctional systems. Explores the social, political, individual effects of crime; examines the long and short-term psychological and physical trauma as a result of violence. Prereq(s): *CJS 111*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Define and describe the qualifications of a victim.

Differentiate between legal, social and therapeutic definitions of victimization.

Analyze the scope of relationships held by victims and their assailants.

Identify the typical physical and psychological responses to victimization and to specific crimes.

Compare and contrast social, physical and psychological injuries typical of certain crimes, i.e., infanticide, serial killings, rape, terrorist attacks.

Analyze the social, physical and psychological defenses, interventions and preventive measures taken by individuals and society.

Describe the social, legislative and legal responses to victimization.

Explain how the adversarial criminal justice system impacts victim's rights and concerns.

Assess the value of victim's impact statements to individual victims, the courts, juries, the defense and prosecution; and society at large.

Analyze the use of victimology toward the collection of evidence and case preparation, prosecution, defense, and jury selection.

Evaluate case studies to establish common characteristics of victims.

Make logical predictions about crimes, and profile offenders based on a collection of victim characteristics and impact.

Design defense and or prosecutorial strategies based on a collection of victim characteristics and impact.

Examine the aftermath of major index crimes on individuals and communities to include murder, rape, assault, robbery, arson and terrorist attacks.

Analyze the National Victimization Crime Surveys.

Compare and contrast the impact of crimes on communities in urban, rural and suburban areas, i.e., population attrition, tax base, business retention, educational expenses and success.

Research the responses by offenders of crime and new initiatives toward restorative justice.

Assess the effects of victim advocacy policies and services afforded by various criminal justice agencies.

Complete a "restorative justice" plan for a specific offender population.

Study the geographic and economic implications of crimes and in reverse, the impact crimes have on these variables.

Describe the impact crimes have on communities in urban, rural and suburban areas, i.e., population attrition, tax base, business retention, educational expenses and success.

Assess the social, economic and political conditions in various areas that increase criminal activity.

Weigh the effectiveness of various "harm reduction" programs, i.e., methadone programs, needle and condom distribution, gun buy-back initiatives.

CJS 234 - Hostage Negotiations

3 credit hours - Three hours weekly; one term.

Explore law enforcement techniques used in hostage negotiations to secure the safety of hostages, seize hostage takers, and minimize injured victims and casualties. Learn and apply effective peace building strategies to preempt violence and criminal activity found in international conflict zones, and those perpetuated by national and international extremists such as terrorists and gangs. Also study concepts in criminal and psychological profiling in order to effectively negotiate with hostage takers. Coreq(s): *CJS 111 or HLS 111.*

Note: Credit will not be given for CJS 234 and also HLS 234.

Course Outcomes

Upon successful completion of this course, students will be able to:

Demonstrates the ability to properly interpret and apply essential information.

Identify valuable information.

Identify critical national and international laws governing hostage negotiations.

Correctly apply information to case scenarios, simulations and table-top exercises.

Demonstrate basic intelligence strategies.

Write valid and reliable reports, summaries and documents.

Articulate ideas and opinions based on credible facts and information.

Examines, calculates and projects outcomes from possible hostage taking threats.

Establish the likelihood of hostage threats based on domestic and international hostage taking patterns.

Track political, social and economic trends throughout the world that may influence hostage taking.

Analyze the role and function of mass media on the legislative and public perspective on hostage negotiations - nationally and internationally.

Assess the role, functions of, and coordination between national agencies of intelligence, law enforcement, corrections and homeland security.

Outline the common characteristics and routine actions of groups and individuals that may engage in hostage taking.

Calculate using graphs and statistics, the influence of social, political, and economic conditions in the U.S. and abroad that may ignite hostage taking.

Chart the general national and local emergency responses to extremist groups and individuals that may engage in hostage taking.

CJS 236 - Immigration and Customs Enforcement

3 credit hours - Three hours weekly; one term.

Explore the goals and operational components of immigration and customs enforcement-surveying the identification, apprehension and removal of illegal aliens from the United States; including detention facilities and detention management. Also explore human rights violations, terrorism, and human smuggling; narcotics, weapons and other types of smuggling; and financial crimes, cybercrime, and export enforcement issues. Examine how to obtain and analyze the intelligence needed to investigate crimes and enforce laws associated with illegal immigration. Coreq(s): *CJS 111 or HLS 111.* Note: Credit will not be given for CJS 236 and also HLS 236.

Course Outcomes

Upon successful completion of this course, students will be able to:

Demonstrates the ability to properly interpret and apply essential information.

- Identify valuable information.
- Identify critical national and international laws governing immigration policy and national security.
- Correctly apply information to case scenarios, simulations and table-top exercises.
- Demonstrate basic intelligence strategies.
- Write valid and reliable reports, summaries and documents pertaining to homeland security functions.
- Articulate ideas and opinions based on credible facts and information.

Examines, calculates and projects outcomes from possible terrorist threats.

- Establish the likelihood of terrorist threats based on immigration patterns.
- Track political, social and economic trends throughout the world that may influence immigration patterns.
- Analyze the role and function of mass media on the legislative and public perspective on immigration - nationally and internationally.
- Assess the role, functions of, and coordination between national agencies of intelligence, homeland security, ICE and CBP.
- Outline the common characteristics and routine actions of terrorists and terrorist organizations.
- Calculate using graphs and statistics, immigration patterns and its influence on social political and economic conditions in the U.S.
- Chart the general national and local emergency responses to illegal immigration and criminal activities associated with illegal immigration.

CJS 250 - Introduction to Forensic Science

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Introduces the principles and practices of forensic sciences. Reviews the history of forensic science, outlining the integrative aspects of this discipline and those of the biological and natural sciences. Includes an examination of the medical and legal uses of the forensic sciences and their specific application in the resolution of criminal investigations. Also examines the significance and limitations of DNA evidence in medical and legal matters. Lab fee \$20. Prereq(s): *CJS 111 or permission of institute director*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Define the role of the forensic scientist in medical and legal investigations.
- Define specialty areas in the field of forensic science.
- Discuss the processing of evidence at a crime scene.
- Discuss scientific techniques used in forensic science.
- Define the common types of physical evidence.
- Analyze, describe and explain the significance of physical evidence.
- Describe, analyze and explain the forensic examination of hairs, fibers, and paint.
- Describe, analyze and explain forensic toxicology.
- Describe, analyze and explain forensic serology.
- Define, describe and explain DNA as a forensic science tool.
- Define, analyze and explain the role of fingerprints in forensic science.
- Describe, analyze and explain tool marks and other impressions as forensic science tools.

CJS 255 - History of Gangs

3 credit hours - Three hours weekly; one term.

Explore the historical formulation of gangs in the United States and those existing abroad. Students analyze the structure and organization of gang activity; the socio-psychological factors that influence people to join gangs; and various law enforcement practices to identify, prevent, and intervene in criminal activity through gang membership. Students study various law enforcement and correctional methods that effectively suppress gang activity and security threat groups, including witness protection, and therapeutic intervention for membership extraction. Coreq(s): *CJS 111 or HLS 111*. Note: *Credit will not be given for CJS 255 and also HLS 255.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Demonstrates the ability to properly interpret and apply essential information.

- Identify valuable information.
- Identify critical local, federal, and international laws governing gangs and security threat groups in jails and prisons.
- Correctly apply information to case scenarios, simulations and table-top exercises.
- Demonstrate basic intelligence strategies for identifying gangs and security threat groups in jails and prisons.
- Write valid and reliable reports, summaries and documents.
- Articulate ideas and opinions based on credible facts and information.

Examines, calculates and projects outcomes from various prevention and intervention strategies against criminal gang activity.

- Learner applies proper decision making strategies to case studies.
- Learner articulates local and federal goals and strategic plans for preventing, intervening in, investigating, arresting, and prosecuting criminal gang activity.
- Learner accurately applies information derived from essential sources of written and or electronic information to case studies, simulations and table-top exercises.
- Learner outlines the cultural and political climates throughout the world that influence the formulation of gang activities.
- Learner applies the scientific methods by organizing, analyzing, and interpreting information and data generated from local, state, federal, and international law enforcement agencies; intelligence agencies, and from the U.S. Military.

CJS 260 - Terrorism/Counterterrorism

3 credit hours - Three hours weekly; one term.

Provides a historical analysis of terrorism. Introduces the historical and contemporary issues relevant to domestic and international terrorism. Examines methods utilized by law enforcement and intelligence agencies in preventing and detecting terrorism. Also explores the process utilized for collecting and documenting evidence for the capture and effective prosecution of terrorists. Topics include the role of the media in covering, investigating and reporting terrorist events, and the constitutional and sociological dilemmas involved in investigating terrorist acts in democracies, such as the threats to privacy and individual rights. Note: *Credit will not be given for CJS 260 and also HLS 260, PSY 260, or SOC 260.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

CJS 270 - War in the American Experience: Unconventional Warfare

3 credit hours - Three hours weekly; one term.

Studies the history and influence of American use of unconventional warfare from pre-colonial times to the present. Discusses elite units (Rangers, SEALs, etc.) and their effects on public opinion. Note: *Credit will not be given for CJS 270 and also HLS 270.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Describe the role of and the influence of unconventional warfare operations on public opinion and culture.

- Review unconventional units in the military.
- Describe various types of unconventional units.
- Discuss the evolution of some of the military units.

Define the theory and describe the practice of unconventional warfare.

- Explain the difference between conventional and unconventional warfare.
- Convey the theory of unconventional warfare.
- Conceptualize how unconventional warfare is practiced.

Explain the evolution of unconventional units in the military.

- Review unconventional units in the military.
- Discuss the evolution of some of the military units.

Characterize the types of unconventional units in the military.

- Describe types of unconventional units.

Chart unconventional warfare operations conducted during various wars of American history.

Summarize unconventional warfare from the French and Indian War, through the American Revolution, the Civil War, World Wars I and II, Vietnamese Conflict, Gulf War and Terrorism.
Predict how unconventional warfare will evolve for future needs.

CJS 275 - Criminal Justice Internship

3 credit hours - One hour of seminar, eight hours of work weekly; one term.

Provides advanced students with practical experience in their field. Various police departments, security organizations, correctional institutions, courts and legal agencies cooperate with the college in providing field experience for students in law enforcement, forensics, juvenile justice and federal law enforcement. Prereq(s): *Permission of institute director, 2.5 GPA and acceptance by assigned intern agency. The institute director may grant permission when a student has less than a 2.5 GPA. Otherwise, an internship placement cannot be obtained.* Crosslisted: *Also offered as CJS 275H; credit will not be given for CJS 275 and also CJS 275H.* Note: *Enrollment in internship courses requires that students hold an appropriate internship placement in order to receive course credit. Please consult with the Coordinator for Internships prior to registering unless otherwise specified by the department chair or director. Many law enforcement agencies require students to successfully complete a background check. Those wishing to secure internships with law enforcement and homeland security agencies should contact the Homeland Security and Criminal Justice Institute's internship coordinator 90 days prior to start of course. Otherwise internships at certain agencies may not be obtainable.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Develop valuable work experience and knowledge of the Homeland Security and Criminal Justice field.
- Cultivate training and development in the workplace under professional guidance and supervision.
- Apply ideas, theories, and concepts learned in Homeland Security and Criminal Justice Institute courses.

CJS 275H - Criminal Justice Internship—Honors

3 credit hours - One hour of seminar, eight hours of work weekly; one term.

This is an honors course. Provides advanced students with practical experience in their field. Various police departments, security organizations, correctional institutions, courts and legal agencies cooperate with the college in providing field experience for students in law enforcement, forensics, juvenile justice and federal law enforcement. Prereq(s): *Permission of institute director, 2.5 GPA and acceptance by assigned intern agency. The institute director may grant permission when a student has less than a 2.5 GPA. Otherwise, an internship placement cannot be obtained.* Eligibility for Honors courses. Crosslisted: *Also offered as CJS 275; credit not given for both CJS 275H and CJS 275.* Note: *Enrollment in internship courses requires that students hold an appropriate internship placement in order to receive course credit. Please consult with the Coordinator for Internships prior to registering unless otherwise specified by the department chair or director. Many law enforcement agencies require students to successfully complete a background check. Those wishing to secure internships with law enforcement and homeland security agencies should contact the Homeland Security and Criminal Justice Institute's internship coordinator 90 days prior to start of course. Otherwise internships at certain agencies may not be obtainable.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Develop valuable work experience and knowledge of the Homeland Security and Criminal Justice field.
- Cultivate training and development in the workplace under professional guidance and supervision.
- Apply ideas, theories, and concepts learned in Homeland Security and Criminal Justice Institute courses.

CJS 280-299 - Special Topics in Law Enforcement

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Special topics in law enforcement and criminal justice. Topics include polygraph, interrogation, labor relations, white-collar crime, arson investigation and other areas of current interest not suited to traditional scheduling. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-30. Prereq(s): *Permission of institute director.*

Cyber

CYB 270 - Cyber Capstone

1 credit hour - One hour of lecture and one hour of laboratory weekly; one term.

Demonstrate the ability to identify and respond to cybersecurity challenges in the workplace using hands-on, skills-based projects. Lab fee \$35. Prereq(s): *CTS 140 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Research hardware and software needed to build a security solution.
2. Solve problems using a critical thinking systems approach.
3. Identify the risks and threats to an organization's data and systems.
4. Provide a structured way of addressing how to safeguard an organization's critical electronic assets.
5. Communicate effectively with clients and other stakeholders.

Dance

DAN 100 - Dance History

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Study dance history from the Renaissance through the mid 20th century. Explore the roots of ballet, modern and jazz dance. Discover how dance was used as a means of communication, performance, and how culture and society influenced movement. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify and research pioneers of early ballet, modern and jazz dance.
- Define the origins and purpose of ballet, modern and jazz dance.
- Identify the origins of ballet terminology.
- Explain how these dance forms came to America.
- Explain the contributions of the early dance pioneers.
- Discuss the impact of social and cultural influences on dance.
- Discuss the role of media in the dance world.

DAN 105 - Beginning Tap Dance 1

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

A beginning study of the technical fundamentals of tap dance. This course will include learning basic single and double sounds and various combinations at the barre and centre. Positions of the body, use of port de bras, movement through space and learning short combinations will also be explored. May be repeated once for a total of four credit hours. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Practice basic tap rhythms and sounds.

- Describe and demonstrate the mechanics of the footwork.
- Break down the rhythm so the feet can accurately duplicate the tap movements
- Isolate the toe from the heel in practicing the basic rhythms.

Develop proficiency in exercises designed to strengthen technique and performance.

- Commit to a practice schedule outside of the classroom to develop proficiency in tapping.
- Repeat the exercises learned in the studio at home to commit the proper tap movement to muscle memory.

Combine several tap steps/sounds together to develop and perform short combinations.

- Combine two or three tap movements to create a new sound or rhythm pattern.
- Develop a series of steps to practice and demonstrate.
- Combine several of the small series of steps together to create and execute a longer movement phrase.

Achieve the proper body alignment/position to execute the tap rhythms/steps taught in class.

- Practice proper body alignment by utilizing a mirror to check the placement.

View videos or DVD's of professional tap dancers and compare and contrast the body alignment and stylistic similarities and differences.

DAN 106 - Beginning Tap Dance 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Continuation of the study of the technical fundamentals of tap dance. Students continue to master more challenging single, double and triple tap sounds. Concepts, techniques and terminology from other dance forms will be added to the tap movement to provide a diverse range of styles. May be repeated once for a total of four credit hours. Prereq(s): *DAN 105 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Continue to practice basic tap rhythms and sounds

Demonstrate continued proficiency in basic technique and tap rhythms and sounds

Observe relevant techniques for proper execution of exercises

Increase tap vocabulary and movement through space, strengthening technique and performance

Demonstrate correct sounds as done in traveling through space

Demonstrate proper form and body awareness when moving through space

Demonstrate more complex time signatures and rhythms

Acquaint self with basic time step and basic rhythm tap technique

Rehearse steps and demonstrate the difference between time signatures and various rhythms

Discuss tap history and various formats.

Demonstrate understanding of early tap history through discussion

Discuss the differences of the various tap formats and demonstrate understanding of all

DAN 111 - Beginning Ballet 1

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Introduction to the fundamentals of classical ballet. Emphasis is on alignment, turn-out, barre work, footwork and exposure to basic movement vocabulary. May be repeated once for a total of four credit hours. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 112 - Beginning Ballet 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Continuation of the study of fundamentals of classical ballet with an emphasis on alignment, centering and coordination of ballet movements. May be repeated once for a total of four credit hours. Prereq(s): *DAN 111 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 116 - Movement for Actors

3 credit hours - Three hours weekly; one term.

Practical study of movement fundamentals, body awareness, physical intention and nonverbal communication related to the beginning acting process. Principles of the use of time, weight, space and energy and their application are explored along with an introduction to somatics, Laban effort/shape theory and contact improvisation. This course is cross-listed and identical in both Dance and Theater. Prereq(s): *THA 132 or permission of dance coordinator or department chair.* Crosslisted: *Also offered as THA 116; credit is not given for both DAN 116 and THA 116.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Demonstrate increased body awareness and expressive qualities.

Implement acquired knowledge of one's body to become a more effective, expressive tool on stage.

Employ the movement skills and awareness of one's limitations to the best of one's ability.

Combine efforts on creative process with regards to accepting input, meeting goals and respectfully interacting with peers.

Employ acquired knowledge to assigned in-class projects with peers

Exchange views and opinions regarding choices made in the given assignments

Utilize learned creative movement methods to best suit given situations.

Demonstrate an elementary awareness and practical application of Laban Effort/Shape Theory to the acting process.

Utilize effort/shape terms to describe the feeling that is required of the movement.

Demonstrate the directed movement with the knowledge of the Laban terminology in movement projects.

Demonstrate the ability to communicate effectively without using vocal accompaniment/text.

Apply movement phrases to accommodate the needs of the scene.

Utilize the body or bodies on stage to convey the message by movement rather than words.

Exchange thoughtful, constructive feedback with peers

Accept the friendly feedback from peers in the class.

Convey thoughts and observations to peers in class.

Develop a working vocabulary of movement terms to assist the acting process.

Acquaint self with the vocabulary taught in the classroom...Laban Effort/Shape terminology and other helpful, descriptive terms.

Practice verbal description and motor skills.

Increase range of motor skills, knowledge of motor applications and the proper terminology.

Demonstrate ability to create short movement studies that embody each topic covered in class.

Administer acquired knowledge and practice scenarios in class.

Utilize movement patterns effectively.

DAN 121 - Beginning Modern Dance 1

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Introduction to the technique and movement vocabulary of modern dance. Emphasis is on dance fundamentals (floorwork, body alignment) and modern dance as an expressive medium. May be repeated once for a total of four credit hours. Location(s) Typically

Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 122 - Beginning Modern Dance 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Continuation of the study of modern dance with an emphasis on spatial awareness, expression of movement and proficiency in locomotive movements. May be repeated once for a total of four credit hours. Prereq(s): *Any beginning-level dance course or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 125 – Improvisation

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Preliminary course in exploring and developing spontaneous, independent movement activities in individual and in group settings.

Students will build a movement vocabulary utilizing time, energy and spatial awareness. Prereq(s): *DAN 116 or DAN 121 or THA 116 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Demonstrate ability to move spontaneously through space.

Navigate personal movement style.

Evaluate peer movement style

Move through the space alone

Move through the space in groups

Analyze a "situation" in a given space.

Discuss the concept of energy as it relates to movement.

Discuss the concept of time as it relates to movement.

Discuss the concept of space as it relates to movement

Discuss movement options in various situations

Create an experience which calls for particular movement patterns

Justify the chosen movement patterns.

Apply information from required reading to an assigned non-verbal exercise

Discuss the creative tools.

Describe a situation where contact improvisation is utilized.

Demonstrate the use of contact improvisation as a vital, compositional tool
Perform a "structured" improvisational exercise.

Evaluate movement dynamics within assigned framework

Evaluate group work and options
Evaluate individual work and options

Demonstrate knowledge of history of improvisation

Compose a brief research paper on the development of improvisation
Demonstrate examples of improvisation based on historical knowledge

DAN 131 - Beginning Jazz Dance 1

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Introduction to jazz dance and movement combinations. Development of a personal awareness of the body and how its parts can move separately and as a whole to create a form of artistic expression. May be repeated once for a total of four credit hours. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 132 - Beginning Jazz Dance 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Continuation of the study of jazz dance styles and techniques. Emphasis is on proper alignment, stylistic development and coordinated combinations. May be repeated once for a total of four credit hours. Prereq(s): *Any beginning-level dance course or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 192 - Applied Dance: Ballet

2 credit hours - One and one-half hours of individual instruction weekly.

Improve and strengthen dance technique with one-on-one instruction to prepare for auditioning, transferring, performance preparation, or personal enrichment. Course may be repeated for a total of four credit hours. Lab fee \$350. Prereq(s): *DAN 105 or DAN 111 or DAN 121 or DAN 125 or DAN 131 or DAN 211 or permission of the department chair.* Note: *Individual instruction is available for the following: Ballet, Improvisation, Jazz, Modern, Pointe, and Tap.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Access needs and desired outcome within the specified technique of choice.

Identify movement habits.

Demonstrate proper form every class.

Summarize comments made in class and keep an ongoing journal throughout the semester to solidify corrections and to encourage thought process beyond the studio to enhance learning.

DAN 193 - Applied Dance: Improvisation

2 credit hours - One and one-half hours of individual instruction weekly.

Improve and strengthen dance technique with one-on-one instruction to prepare for auditioning, transferring, performance preparation, or personal enrichment. Course may be repeated for a total of four credit hours. Lab fee \$350. Prereq(s): *DAN 105 or DAN 111 or DAN 121 or DAN 125 or DAN 131 or DAN 211 or permission of the department chair.* Note: *Individual instruction is available for the following: Ballet, Improvisation, Jazz, Modern, Pointe, and Tap.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Access needs and desired outcome within the specified technique of choice.

Identify movement habits.

Demonstrate proper form every class.

Summarize comments made in class and keep an ongoing journal throughout the semester to solidify corrections and to encourage thought process beyond the studio to enhance learning.

DAN 194 - Applied Dance: Jazz

2 credit hours - One and one-half hours of individual instruction weekly.

Improve and strengthen dance technique with one-on-one instruction to prepare for auditioning, transferring, performance preparation, or personal enrichment. Course may be repeated for a total of four credit hours. Lab fee \$350. Prereq(s): *DAN 105 or DAN 111 or DAN 121 or DAN 125 or DAN 131 or DAN 211 or permission of the department chair*. Note: *Individual instruction is available for the following: Ballet, Improvisation, Jazz, Modern, Pointe, and Tap*. Location(s) Typically Offered: Arnold Main Campus (MC)
Term(s) Typically Offered: Fall and spring

Course Outcomes

- Access needs and desired outcome within the specified technique of choice.
- Identify movement habits.
- Demonstrate proper form every class.
- Summarize comments made in class and keep an ongoing journal throughout the semester to solidify corrections and to encourage thought process beyond the studio to enhance learning.

DAN 195 - Applied Dance: Modern

2 credit hours - One and one-half hours of individual instruction weekly.

Improve and strengthen dance technique with one-on-one instruction to prepare for auditioning, transferring, performance preparation, or personal enrichment. Course may be repeated for a total of four credit hours. Lab fee \$350. Prereq(s): *DAN 105 or DAN 111 or DAN 121 or DAN 125 or DAN 131 or DAN 211 or permission of the department chair*. Note: *Individual instruction is available for the following: Ballet, Improvisation, Jazz, Modern, Pointe, and Tap*. Location(s) Typically Offered: Arnold Main Campus (MC)
Term(s) Typically Offered: Fall and spring

DAN 196 - Applied Dance: Pointe

2 credit hours - One and one-half hours of individual instruction weekly.

Improve and strengthen dance technique with one-on-one instruction to prepare for auditioning, transferring, performance preparation, or personal enrichment. Course may be repeated for a total of four credit hours. Lab fee \$350. Prereq(s): *DAN 105 or DAN 111 or DAN 121 or DAN 125 or DAN 131 or DAN 211 or permission of the department chair*. Note: *Individual instruction is available for the following: Ballet, Improvisation, Jazz, Modern, Pointe, and Tap*. Location(s) Typically Offered: Arnold Main Campus (MC)
Term(s) Typically Offered: Fall and spring

DAN 197 - Applied Dance: Tap

2 credit hours - One and one-half hours of individual instruction weekly.

Improve and strengthen dance technique with one-on-one instruction to prepare for auditioning, transferring, performance preparation, or personal enrichment. Course may be repeated for a total of four credit hours. Lab fee \$350. Prereq(s): *DAN 105 or DAN 111 or DAN 121 or DAN 125 or DAN 131 or DAN 211 or permission of the department chair*. Note: *Individual instruction is available for the following: Ballet, Improvisation, Jazz, Modern, Pointe, and Tap*. Location(s) Typically Offered: Arnold Main Campus (MC)
Term(s) Typically Offered: Fall and spring

DAN 205 - Intermediate Tap Dance 1

2 credit hours - One hour lecture and two hours studio weekly; one term.

An intermediate study of the technical fundamentals of tap dance. This course will include execution and mastery of all single, double, and triple sounds, and exposure to and the integration of concepts from the world of rhythm tap. May be repeated once for a total of four credit hours. Prereq(s): *DAN 106 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC)
Term(s) Typically Offered: Fall and spring

Course Outcomes

Review basic steps to ensure quality and clarity of performance.

- Demonstrate prior knowledge of basic tap steps.
- Execute proper body alignment, placement, and weight changes while performing basic steps.

Increase tap and rhythm vocabulary.

- Expand tap and rhythm vocabulary by learning and perfecting new steps.
- Practice new steps to commit them to memory.

Utilize spatial patterns and learn room/stage directions.

- Specify the movement pattern required for specific combinations of steps.
- Demonstrate the ability to utilize the proper spatial patterns.

Identify the stage directions...up stage, down stage, stage right and left.
Demonstrate understanding of stage directions within various tap combinations.

Execute knowledge of rhythm and time regarding music and tapping.

Analyze the tempo of select music for class.
Perform appropriate sounds to the music selected for the combinations.

Discuss history of tap and the current trends.

Accept responsibility to learn about select "tap masters."
Discuss the history of tap and demonstrate the types of tap that were popular at that time.
Discuss current trends in tap dancing today.

DAN 206 - Intermediate Tap Dance 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Continue intermediate study of technical fundamentals of tap dance. This course will further challenge students with more complex single, double and triple sounds, and combinations including rhythm tap. May be repeated once for a total of four credit hours.

Prereq(s): *DAN 205 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Demonstrate ability to increase tap vocabulary

Further develop skills in specific tap dance steps/moves
Demonstrate use of syncopation
Practice and perfect double and triple time tempo of standard tap steps/moves

Perform challenging rhythm tap combinations and time signatures

Combine steps and incorporate turning and directional changes
Demonstrate irregular rhythms
Create your own rhythm without the use of outside music

Perform tap movement while turning and moving through space

Execute standard tap movements while turning through space
Broaden the use of space while tapping... perform the steps bigger and smaller

Increase knowledge of tap dance history and it's social and cultural contributions.

Discuss the history of tap dance... where and when it started and why
Discuss a select number of tap "pioneers" and their impact on society
Discuss the cultural input and it's impact on tap dance

DAN 211 - Intermediate Ballet 1

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Further study of classical ballet with emphasis on execution of movement and more complex work and combinations. May be repeated once for a total of four credit hours. Prereq(s): *DAN 112 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 212 - Intermediate Ballet 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Provides continued study of classical ballet technique with emphasis on performance presentation and challenging technical combinations. Designed to develop strength and accuracy, musicality and flexibility. May be repeated once for a total of four credit hours. Prereq(s): *DAN 211 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Demonstrate intermediate level class skills in ballet.

Demonstrate skills in barre exercises.
Demonstrate skills in centre work.
Demonstrate skills in jumps and beat work.
Perform skills in arm, leg and head positions.

Perform intermediate level ballet combinations.

Perform combinations with proper alignment.
Perform combinations with grace and confidence.

Recognize the difference between the various styles of ballet technique.

Articulate the Vaganova style of ballet.
Articulate the RAD style of ballet.
Articulate the Cecchetti style of ballet.
Articulate the French style of ballet.

Articulate the early history of ballet and its purpose.

Explain the origins of ballet (countries).
Explain the original purpose of ballet.
Articulate the "key" players in the promotion of ballet among royalty.
Identify the reason for turn out in ballet.
Identify why the reason for costume modifications in ballet.
Identify current, world-renowned ballet dancers.

Describe ballet terminology.

Recognize intermediate ballet terms.
Define intermediate level ballet terms.

Perform codified ballet movements.

Demonstrate requested intermediate level ballet movements in small groups.
Demonstrate requested intermediate level ballet movements individually.

DAN 215 - Beginning Pointe Technique

1 credit hour - One half hour of lecture and one hour of studio weekly; one term.

Begin pointe work focusing on strengthening the ankles, demi-pointe and placement in the execution of elementary movement on pointe. Note: *Must be concurrently enrolled in DAN 211 or DAN 212 in order to maintain the necessary strength for the pointe class.*

Course Outcomes

Develop foot, ankle and leg strength necessary for pointe work.

Practice movements relevant to strengthening the foot, ankle and legs.
Observe relevant techniques for proper execution of exercises.

Execute basic movements on pointe.

Demonstrate correct body placement.
Demonstrate accurate balance during exercises.
Demonstrate technical proficiency in exercises.

Apply knowledge and technique of pointe work in the performance of ballet.

Describe the relationship of pointe-work to ballet technique.
Demonstrate basic barre work and centre work on pointe using proper technique.
Discuss the aesthetics of the technique regarding ballet and pointe work.

DAN 221 - Intermediate Modern Dance 1

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Continue exploration and development of modern dance technique. Learn increased movement vocabulary as well as lengthier and more complex movement combinations. Conduct a select study of various modern dance choreographers. May be repeated once for a total of four credit hours. Prereq(s): *Any beginning-level 2 dance course or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 222 - Intermediate Modern Dance 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Continue exploration and development of modern dance technique, both abstract and thematic material within complex combinations. May be repeated once for a total of four credit hours. Prereq(s): *DAN 211 or DAN 221 or DAN 231 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 231 - Intermediate Jazz Dance 1

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Continue to develop jazz dance techniques including contemporary jazz styles. Create and perform lengthy and challenging

combinations. May be repeated once for a total of four credit hours. Prereq(s): *DAN 106 or DAN 112 or DAN 122 or DAN 132 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 232 - Intermediate Jazz Dance 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Continue exploration and development of jazz technique with emphasis on execution of a variety of jazz dance styles. May be repeated once for a total of four credit hours. Prereq(s): *DAN 211 or DAN 221 or DAN 231 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 240 - Dance Production

3 credit hours - One hour of lecture and four hours of studio weekly; one term.

Introduction to choreography, composition, performance, and the process involved in assembling a full evening of dance, including publicity, lighting, concert structure, and exit strategies. Students will participate in a dance audition, attend rehearsals, choreograph in-class projects, discuss current issues facing today's performing dance world (gigs, gender equity, pay, and venues), and perform on stage at the end of the semester. Prereq(s): *This 13 week course requires students to successfully audition for the AACC Dance Company at the start of the 15 week term, and receive permission from the department chair in order to register. Note: May be repeated once for a total of six credits.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Incorporate specific terminology describing and defining dance movement.
- Change movement qualities, utilizing compositional devices and effort/shape descriptors.
- Create original choreography to music without lyrics.
- Assemble costumes and light dancers.
- Create posters and use social media to publicize performances and special events.
- Explain the potential future challenges with the following: booking a gig, negotiating salary, understanding gender equity in today's performing dance world.

DAN 263 - West African Music and Dance

3 credit hours - One hour of lecture and three hours of studio weekly; one term.

Study the practical and theoretical traditions of West African music and dance. Experience the rhythms, songs, movements, and languages of Ghana and other West African countries using an interdisciplinary approach that reflects the integrated nature of drumming, dancing, and singing in West Africa. Perform a range of musical styles and a variety of traditional and contemporary choreographies. Crosslisted: *Also offered as MUS 263; credit is not given for both DAN 263 and MUS 263.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

DAN 280-299 - Special Topics in Dance

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A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Dental Hygiene

DHY 100 - Dental Hygiene Theory 1

2 credit hours - Two lecture hours weekly; one term.

Discuss the fundamental concepts of oral health care services, disease control, infection control practices, dental hygiene instrumentation, and assessment techniques. Identify and define concepts of client motivation, educational techniques, disease prevention strategies, and the dental hygiene process of care. Prereq(s): *Acceptance into the Dental Hygiene Program*. Coreq(s): *DHY 102, DHY 104, DHY 106, DHY 108.*

Course Outcomes

Define the role of a dental hygienist and the impact they have on oral health.
Describe and demonstrate infection control protocols in clinical settings.
Perform patient assessments such as medical/dental/psychological history, intra- and extra-oral exam, and measure vital signs.
Demonstrate basic skills in documentation of notes using an electronic medical record system.
Describe and perform proper positioning of patient and clinician.
Demonstrate correct instrumentation techniques for basic instruments and describe their function.

DHY 102 - Dental Hygiene Clinical 1

2 credit hours - Eight hours of clinic weekly; one term.

Perform clinical dental hygiene procedures, including basic instrumentation, infection control, client assessment skills, patient education, and treatment planning skills. Demonstrate dental hygiene skills and procedures on typodonts and/or student partners under appropriate supervision. Lab fee \$250. Prereq(s): *Acceptance into the Dental Hygiene Program*. Coreq(s): *DHY 100, DHY 104, DHY 106, DHY 108*.

Course Outcomes

Define and demonstrate how to manipulate various instruments around the oral cavity and how to remove biofilm and supragingival and subgingival calculus.
Explain and demonstrate dental hygiene diagnosis and treatment planning for patients.
Discuss and simulate preventative practices for optimal oral health and disease prevention.
Define and demonstrate how to sharpen hand instruments, use a slow speed handpiece, use powered instruments, and use air polishers.
Differentiate dental hygiene instruments by their characteristics.
Demonstrate infection control protocols in a clinical setting.
Perform medical/dental/psychological history, intra- and extra-oral exam, and vital signs assessments on patients and complete proper documentation in clinical notes.
Perform proper positioning of patients and clinician to avoid musculoskeletal injuries.

DHY 104 - Oral Histology and Embryology

2 credit hours - Two hours of lecture weekly; one term.

Describe the development, eruption, function, and basic morphological characteristics of the permanent and deciduous human dentition, and the growth and development of the face and oral cavity. Identify the process of histology and embryology of the face and oral and nasal cavities, the teeth, and the various components of the teeth and surrounding tissues. Prereq(s): *Acceptance into the Dental Hygiene Program*. Coreq(s): *DHY 100, DHY 102, DHY 106, DHY 108*.

Course Outcomes

Identify the anatomical structure of the oral cavity and development of the dentition, oral cavity, head, and neck.
Explain in detail the growth and development of the orofacial structures.
Describe the structures that comprise the tooth and the periodontium and their function.
Identify the phases in tooth eruption and the changes that occur in the surrounding structure.
Examine the structures, function, and the role of the temporomandibular joint.
Discuss the types and functions of salivary glands, tonsils, and oral mucosa.
Discuss the origin and impact of biofilm on teeth.

DHY 106 - Dental Anatomy and Tooth Morphology

2 credit hours - One hour lecture weekly and two hours lab weekly; one term.

Examine the anatomy of human dentition and the surrounding structures of the head and neck. Describe the anatomy and physiology of various tissue structures, such as muscles, nerves, bones, and blood vessels of the head and neck, and their biological relationship to the oral cavity and the entire body. Explore the oral cavity and the surrounding structures and discuss tooth morphology and the applications of tooth anatomy in dentistry. Lab fee \$2,500. Prereq(s): *Acceptance into the Dental Hygiene Program*. Coreq(s): *DHY 100, DHY 102, DHY 104, DHY 108*.

Course Outcomes

Identify major landmarks related to the anatomy of the head and neck in relationship to the oral cavity.

Describe the development of the dentition, oral cavity, head, and neck.
Define the functions of various tissues and body systems surrounding the oral cavity, head, and neck.
Illustrate the difference in tooth anatomy among primary and secondary dentition.
Explain the application of tooth anatomy in dentistry.
Discuss the anatomical structure of the oral cavity.

DHY 108 - Dental Hygiene Radiology

4 credit hours - Two hours lecture weekly and four hours laboratory weekly; one term.

Discuss the principles and practice of dental radiography. Examine the background of dental x-rays, clinician responsibilities, radiation safety and the biological effects of radiation. Demonstrate x-ray production, processing, mounting, intra- and extra-oral techniques, quality assurance, radiographic selection criteria, radiographic interpretation of anatomy and artifacts, infection control, and patient management. Lab fee \$250. Prereq(s): *Acceptance into the Dental Hygiene Program*. Coreq(s): *DHY 100, DHY 102, DHY 104, DHY 106*.

Course Outcomes

Explain the basic biology, physics, and characteristics of and protection for radiation.
Discuss the basic responsibilities of a dental radiographer.
Apply safety control protocols.
Describe basic processing techniques, equipment, and film characteristics.
Demonstrate the correct techniques to acquire various types of dental radiographs.
Analyze radiographs for quality.
Demonstrate the ability to correctly mount and interpret various dental anomalies and anatomy.

DHY 110 - Dental Hygiene Theory 2

2 credit hours - Two hours of lecture weekly; one term.

Examine the theories and practice of dental hygiene care with emphasis on advanced instrumentation techniques and supportive dental hygiene therapy, including tobacco cessation intervention, fluoridation and fluoride therapy, supplementary aids, chemotherapeutics, and desensitization. Describe the dental hygiene process of care emphasizing treatment planning. Prereq(s): *DHY 100, DHY 102, DHY 104, DHY 106, and DHY 108 with a grade of C or better in each course*. Coreq(s): *DHY 112, DHY 114, and DHY 116*.

Course Outcomes

Explain and implement HIPAA regulations and discuss the consequences for non-compliance.
Evaluate the oral health needs of the client and develop appropriate and individualized self-care regimens with respect to the goals, values, beliefs, and preferences of the client.
Formulate dental hygiene diagnosis and develop dental hygiene care plans and oral health education strategies for clients exhibiting a variety of dental and periodontal conditions.
Discuss appropriate use and indications for chemotherapeutic agents, topical and local anesthetics.
Describe the contents involved in sharpening dental instruments and justify its importance.
Describe the characteristics, indications, and procedures for use of a variety of supplementary cleaning aids including power toothbrushes.
Identify the purpose and criteria for measurement scoring methods, range of scores, and reference and interpretation scales for a variety of dental indices.

DHY 112 - Dental Hygiene Clinical 2

2 credit hours - Eight hours of clinic weekly; one term.

Perform dental hygiene clinical skills including client assessments, instrumentation and preventive techniques, with emphasis on providing care for the light to moderate classification clients. Demonstrate client care assessments, planning, implementation, and evaluation. Lab fee \$350. Prereq(s): *DHY 100, DHY 102, DHY 104, DHY 106, and DHY 108 with a grade of C or better in each course*. Coreq(s): *DHY 110, DHY 114, and DHY 116*.

Course Outcomes

Display professionalism and ethical reasoning when working with peers, clients and clinical faculty.

Obtain, review, and update client's informed consent, vital signs, medical history, dental history, family history, and social history while recognizing cultural differences in the population.

Perform an oral comprehensive examination including clinical, radiographic, periodontal and dental charting, and plaque-free index, as well as other data collection procedures to assess the client's needs.

Expose, process, mount and interpret diagnostically acceptable radiographic surveys on clinic clients.

Analyze data gathered during the assessment phase to identify client's dental hygiene diagnosis and oral health needs to establish a planned sequence of educational and clinical services.

Demonstrate individualized preventive oral hygiene care education designed to motivate the client toward routine and effective home care skills and habit cessation.

Detect, identify and remove soft and hard deposits from the dentition.

Analyze dental evaluation outcomes and offer recommendations to client regarding prevention and therapeutic measures.

List potential complications associated with local anesthesia use. Describe in detail the equipment used in dental local anesthesia and the purpose of each component; properly apply a topical anesthetic.

DHY 114 – Periodontology

2 credit hours - Two hours of lecture weekly; one term.

Describe the anatomy of the periodontium and the etiology of periodontal disease. Classify patients based on periodontal criteria and identify optimal strategies to help reverse periodontitis. Describe procedures to complete periodontal evaluation for all classifications, identify best options for treatment, develop a treatment plan, review systemic health conditions, discuss prevention strategies, conduct risk assessment, and identify the use and implementation of different home care aids. Describe how to assess and consider the patient's beliefs and personal opinions on oral health, and provide patient education using clear and effective communication. Prereq(s): *DHY 100, DHY 102, DHY 104, DHY 106, and DHY 108 with a grade of C or better in each course.* Coreq(s): *DHY 110, DHY 112, and DHY 116.*

Course Outcomes

Review how healthy and diseased periodontium differ biologically and anatomically and identify risk factors associated with periodontal diseases.

Distinguish different classifications of periodontitis.

Design a treatment plan to help patients achieve oral health goals based on patients' needs.

Evaluate and translate radiographs, periodontal charting, medical history, and other evaluation tools to help communicate dental hygiene diagnosis to the patient.

Describe nonsurgical periodontal therapy, irrigation methods, and chemical agents used in periodontal care.

Demonstrate an understanding of how different perspectives and beliefs affect oral health.

Demonstrate effective communication skills for patient education.

Document patient cases in written clinic notes.

DHY 116 - Dental Materials and Procedures

2 credit hours - One hour of lecture and two hours of laboratory weekly; one term.

Examine the chemical, physical, and mechanical properties of materials used in dentistry. Demonstrate the proper application and manipulation of dental materials in accordance with the regulations of the Maryland State Board of Dentistry. Lab fee \$250. Prereq(s): *DHY 100, DHY 102, DHY 104, DHY 106, and DHY 108 with a grade of C or better in each course.* Coreq(s): *DHY 110, DHY 112, and DHY 114.*

Course Outcomes

Describe chemical, physical, and mechanical properties used in dentistry.

Demonstrate dental procedures allowed by the Maryland State Board of Dentistry.

Create appliances for preventive oral care and inspect the completed appliance for imperfections.

Demonstrate strategies and techniques used by clinicians to optimize and improve the patient care experience.

DHY 120 - Dental Hygiene Biochemistry and Nutrition

2 credit hours - Two hours of lecture weekly; one term.

Examine general pathology with a focus on oral pathology to recognize abnormalities extra- and intra-orally. Describe the connection between systemic health and oral health pertaining to pathology and risk factors that lead to higher prognosis of cancer. Define the etiology, pathogenesis, clinical and microscopic signs and symptoms, differential diagnosis, treatment, and follow-up and prognosis

related to dental care. Prereq(s): *DHY 110, DHY 112, DHY 114, and DHY 116 with a grade of C or better in each course.* Coreq(s): *DHY 122 and DHY 124.*

Course Outcomes

- Communicate effectively with clients regarding overall health behaviors, nutritional habits, and the relationship to oral and/or systemic disease.
- Explain the role of nutrition in the synthesis and maintenance of the oral tissues.
- Name the classes of essential nutrients, and state their general function in growth and development.
- Understand globally the impact nutritional habits have on overall health and oral health and identify tools and services dedicated to improving the overall wellness of clinic and community patients.
- Use computer software to determine the nutrient content of a diet, and use nutrient intake guidelines appropriately to evaluate the diet for nutritional content and effect on the oral cavity.
- Identify food factors and eating patterns that may contribute to the development of caries and/or impact healing of oral tissues.
- Describe the recommended dietary allowance (RDA) and United States Department of Agriculture (USDA) nutrient intake standards in terms of their aims, differences, nutrients represented and their application to individual clients.
- Explain dietary goals for people with chronic disease such as obesity, diabetes, hypertension, and cardiovascular disease and how they might impact oral health.

DHY 122 - Dental Hygiene Theory 3 Pain Management

2 credit hours - Two hours of lecture weekly; one term.

Examine the application of various physical, chemical and psychological modalities to increase client comfort and control pain when providing dental hygiene therapeutic services. Emphasis is placed on dental hygiene administration of local dental anesthetics and nitrous oxide and oxygen sedation. Describe how to administer and monitor local anesthetics and nitrous oxide to patients for dental procedures as required by the Maryland State Board of Dental Examiners to obtain certification. Prereq(s): *DHY 110, DHY 112, DHY 114, and DHY 116 with a grade of C or better in each course.* Coreq(s): *DHY 120 and DHY 124.*

Course Outcomes

Upon completion of this course, the dental hygiene student will be able to:

1. Describe the application of various physical, chemical and psychological modalities to increase client comfort and control pain when providing dental hygiene therapeutic services.
2. Explain the components of the preoperative evaluation of a client, deriving indications or contraindications to local anesthetic use and predicting potential complications.
3. Identify the types of pain control available to clients.
4. Develop a plan for anesthetizing any region of the oral cavity for a dental hygiene procedure.
5. Develop an evidence-based approach to helping clients cope with pain that may accompany dental hygiene treatment.
6. Explain the rationale and basic principles of nitrous oxide and oxygen sedation in pain and anxiety control and as an adjunct to local anesthesia.
7. Critically evaluate reported advances and research on local anesthetic agents and techniques.
8. Explain the critical procedures to manage complications/medical emergencies.

DHY 124 - Dental Hygiene Clinical 3 Pain Management

2 credit hours - Eight hours of clinical weekly; one term.

Expand knowledge and clinical skills with client assessments, instrumentation and preventive techniques, with emphasis on providing care for the light to moderate classification clients. Under appropriate supervision, provide client care assessment, planning, implementation, and evaluation. Examine the application of various physical, chemical and psychological modalities to increase client comfort and control pain when providing dental hygiene therapeutic services. Utilize the knowledge and understanding of pain management to increase client comfort while providing dental hygiene therapeutic services. Lab fee \$350. Clinical fee \$100. Prereq(s): *DHY 110, DHY 112, DHY 114, and DHY 116 DHY 120 with a grade of C or better in each course.* Coreq(s): *DHY 120 and*

Course Outcomes

Describe how to manage patients who are medically compromised, patients with various types of mental and physical disabilities, patients with substance abuse issues, and patients with different oral health needs.

Discuss nonsurgical scaling and root planning, adjunctive therapy, and types of indices and scoring methods.

Perform advance instrumentation techniques to manipulate various instruments around the oral cavity, the dentition, and to remove biofilm and calculus to supra and subgingival.

Distinguish patient's oral health based on dental hygiene diagnosis and treatment plan for care.

Formulate and use infection control protocols plan, preventative practices for optimal oral health, and disease prevention for patients.

Demonstrate and apply correct ergonomics, how to sharpen hand instruments, using a slow speedy handpiece, using powered instruments, and using air polishers in dental hygiene.

Compose documentation of all patient findings in clinical notes using computer software system.

Explain the critical procedures to manage complications/medical emergencies.

DHY 200 - Dental Hygiene Theory 4

2 credit hours - Two hours lecture weekly; one term.

Discuss dental hygiene theory and practice including root planning, subgingival irrigation, powered scaling, air polishing, and case presentation. Describe the care and clinical management of clients with special needs and review the essential components and clinical procedures performed in the various dental specialties. Prereq(s): *DHY 120, DHY 122 and DHY 124 with a grade of C or better in each course.* Coreq(s): *DHY 202, DHY 204, and DHY 206.*

Course Outcomes

1. Describe dental hygiene theory and clinical practice related to procedures addressing tooth cleaning and polishing.
2. Analyze the physical, mental, medical, social and dental needs of individuals with special needs.
3. Plan, implement and evaluate a community-based prevention program for individuals with special needs.
4. Discuss the role of the dental team in substance abuse counseling.
5. Develop a scientific based poster presentation describing a relevant public health disparity for presentation to a professional audience.

DHY 202 - Dental Hygiene Clinical 4

2 credit hours - Eight hours of clinic weekly; one term.

Demonstrate principles and clinical skills of dental hygiene practice with an emphasis on non-surgical periodontal therapy. Under appropriate supervision of a dentist, provide client care assessments, planning, implementation, and evaluation. Lab fee \$350. Prereq(s): *DHY 120, DHY 122, and DHY 124 with a grade of C or better in each course.* Coreq(s): *DHY 200, DHY 204, and DHY 206.*

Course Outcomes

Select and administer appropriate oral medicaments with proper instruction to client.

Demonstrate proper infection control techniques in the clinical setting.

Demonstrate competency in the knowledge and skills required for delivery of comprehensive dental hygiene care to diverse clients.

Display professionalism and ethical reasoning when working with peers, clients and clinical faculty.

Provide advanced dental hygiene services that can be legally performed within the scope of practice.

Provide dental hygiene care to promote health and wellness using critical thinking and problem-solving skills in the provision of evidence-based practice.

DHY 204 - Dental Hygiene Pharmacology

2 credit hours - Two hours of lecture weekly; one term.

Examine basic pharmaceutical medicine related to the practice of dental hygiene. Discuss general principles, medications that alter dental treatment, and dental hygiene considerations. Describe drugs that are commonly used in dentistry and potential adverse reactions, characteristics and mechanisms of drug actions, pharmacokinetics, clinical pharmacokinetics, and routes of administration. Prereq(s): *DHY 120, DHY 122, and DHY 124 with a grade of C or better in each course.* Coreq(s): *DHY 200, DHY 202, and DHY*

Course Outcomes

Discuss definitions and classifications, clinical manifestations, and toxicologic evaluation of drugs.
 Recognize adverse drug effects and dental hygiene considerations for adverse drug reactions.
 Describe drugs commonly used in dentistry to benefit patient care or during treatment management.
 Describe drugs that may alter the treatment of dental or dental hygiene care.
 Discuss special situations that may impact dental care due to the influence of certain drugs or medications.
 Apply prevention strategies by analyzing patient medical histories and using consultations with physicians.
 Categorize patients by the American Society of Anesthesiologists (ASA) physical status classification system to minimize potential for a medical emergency.
 Assess the patient's medical/dental/psychological history and measure vital signs.

DHY 206 - General and Oral Pathology

2 credit hours - Two hours of lecture weekly; one term.

Examine general pathology with a focus on oral pathology to recognize abnormalities extra- and intraorally. Describe the connection between systemic health and oral health pertaining to pathology and risk factors that lead to higher prognosis of cancer. Define the etiology, pathogenesis, clinical and microscopic signs and symptoms, differential diagnosis, treatment, and follow-up and prognosis related to dental care. Prereq(s): *DHY 120, DHY 122 and DHY 124 with a grade of C or better in each course.* Coreq(s): *DHY 200, DHY 202, and DHY 204.*

Course Outcomes

Define various normal and abnormal lesions and conditions seen clinically and/or radiographically.
 Demonstrate an understanding of pathology related to inflammation, repairs and immunity.
 Differentiate normal and abnormal lesions based on clinical characteristics.
 Identify suspicious lesions by clinical characteristics for documentation and to report to supervising dentist.
 Describe the anatomy and physiology and the changes that occur in the oral mucosa.
 Examine situations that may impact dental care due to effects of medications.
 Describe the structures, function, and the role of the temporomandibular joint and oral cavity anatomy.

DHY 220 - Dental Hygiene Theory 5

2 credit hours - Two hours lecture weekly; one term.

Apply previously acquired theoretical and clinical skills to advance to proficiency level. Demonstrate proficiency in dental practice management, the business of dentistry, resume writing, interviewing, the dental hygiene profession and modern-day workforce, and prepare for the national board examination. Discuss professional ethics and dental jurisprudence, professional organizations, and issues involving the dental hygiene profession. Describe the laws and rules governing the practice of dental hygiene in the state of Maryland. Examine practice management skills and employment preparation, including resumes and interview techniques. Prereq(s): *DHY 200, DHY 202, DHY 204, and DHY 206 with a grade of C or better in each course.* Coreq(s): *DHY 222, DHY 224, and DHY 226.*

Course Outcomes

Create a resume to apply for job opportunities after graduating.
 Discuss how dental practices operate as a business, the dental hygiene profession and modern-day workforce, national board examination, and interviewing skills.
 Describe the management of patients who are medically compromised, patients with various mental and physical disabilities, patients with substance abuse disorders, and patients with different oral health needs and different psychological beliefs.
 Evaluate nonsurgical scaling and root planning, adjunctive therapy, types of indices and scoring methods, desensitizing agents, fluoride, and teeth bleaching in patient care.
 Explain the use of basic and advanced instrumentation techniques in the modern-day workforce.
 Describe strategies for success in today's modern dental practice.
 Describe the process for registering and preparing for the national board exam.

DHY 222 - Dental Hygiene Clinical 5

4 credit hours - Sixteen hours of clinic weekly; one term.

Demonstrate and apply new and previously learned clinical skills, techniques and responsibilities of an entry-level dental hygienist. Emphasize fine tuning clinical skills, comprehensive treatment planning, self-assessment, and independent decision making. Identify skills to assist in the transition to dental hygiene practice beyond graduation. Lab fee \$350. Clinical fee \$100. Prereq(s): *DHY 200, DHY 202, DHY 204, and DHY 206 with a grade of C or better in each course.* Coreq(s): *DHY 220, DHY 224, and DHY 226.*

Course Outcomes

Apply advanced dental hygiene theory and care to implement the modifications required for the treatment of clients with special needs.

Integrate and describe all aspects of dental hygiene care on a variety of clients.

Analyze the need for the application of chemotherapeutic agents.

Compare and contrast appropriate levels of sedation for optimal patient care.

Practice in accordance with the Maryland State Board of Dental Examiners rules and regulations governing the administration of local anesthesia and nitrous oxide and oxygen sedation.

Design a plan to control pain and anxiety during treatment through the use of acceptable clinical and behavior management strategies.

DHY 224 - Dental Hygiene Public Health

2 credit hours - One hour of lecture weekly and four hours of clinical weekly; one term.

Describe the impact dental health care can have through community service programs and prevention programs. Explore the history of public health, program planning and evaluation, health promotion, oral health education, and epidemiology and research. Implement methods for oral health promotion and education in the clinic and a community setting. Lab fee \$250. Clinical fee \$100. Prereq(s): *DHY 200, DHY 202, DHY 204, and DHY 206 with a grade of C or better in each course.* Coreq(s): *DHY 220, DHY 222, and DHY 226.*

Course Outcomes

Explain the history and the importance of public health for dentistry.

Explain ethical and legal principles in public health service.

Describe how epidemiology helps dental public health.

Develop a community dental health program that can be implemented.

Assess community dental health prevention programs completed in the past.

Describe and implement methods for oral health promotion and education for community-based learning.

Explore strategies to prepare for success on the national board examination.

DHY 226 - Dental Hygiene Ethics and Jurisprudence

1 credit hour - One hour of lecture weekly; one term.

Describe the ethical responsibility, regulations, and jurisprudence pertaining to dental hygiene. Define the dental hygienist's role in the recognition, documentation, and reporting of family maltreatment, abuse, and neglect. Compare and contrast how states differ in the scope of practice and how state legislation is changing to advance the practice of dental hygiene. Prereq(s): *DHY 200, DHY 202, DHY 204, and DHY 206 with a grade of C or better in each course.* Coreq(s): *DHY 220, DHY 222, and DHY 224.*

Course Outcomes

Define ethical professionalism, responsibility, values, and principles based on the code of ethics.

Assess the scope of practice when working in the dental hygiene field based on state regulations.

Design strategies to help prevent ethical misconduct.

Evaluate the risks associated with completing a task that might be ethically questionable.

Describe procedures to report misconduct to superiors.

DHY 280-299 - Special Topics in Dental Hygiene

1 - 8 credit hours - One to eight hours weekly; one term.

For students seeking readmission to the Dental Hygiene Program or transfer from an accredited program. If a review of course outlines from transfer courses identifies omissions in content, students will be required to take from one to eight credits in this course.

Courses may be pursued by practicing dental hygienists who wish to update theory. Courses focus on advanced levels of care or topics of interest. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Lab fee \$0-2,500. Prereq(s): *Permission of the director of dental education.*

Drone Technologies

UAS 100 - Uncrewed Aircraft Systems Remote Pilot Ground School

1 credit hour - One hour lecture weekly; one term.

Learn the essential regulations and standards to operate a small uncrewed aircraft system (sUAS), also known as a drone, under the Federal Aviation Administration (FAA) Part 107 and other relevant regulations. Discuss topics to include federal regulations, airspace, aviation weather, aircraft loading and performance, radio communications, emergency procedures, physiological factors affecting pilot performance, Aeronautical Decision Making (ADM), Crew Resource Management (CRM), airport operations, and maintenance and inspections procedures. Note: *This course prepares students to take the FAA Remote Pilot Certificate Exam, but the cost of the exam is not included in the course fees.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply appropriate federal laws and regulations specific to small uncrewed aircraft systems (sUAS) operations.
- Interpret aviation charts to identify controlled and uncontrolled airspace, operating requirements, special-use airspace, and flight restrictions.
- Evaluate aviation weather charts, reports, and forecasts specific to safe sUAS operations.
- Describe the physiological factors that can affect pilot performance and use a systematic approach to good decision-making that assess and mitigate risk.
- Explain the potential circumstances that would create an inflight emergency and how to mitigate potential consequences including the maintenance and inspection required to assure safe operation of a sUAS.

UAS 111 - Introduction to Drone Technology

3 credit hours - Three hours lecture weekly; one term.

This course meets the Technology Requirement. Learn information technology concepts and skills that are fundamental to social, personal, business, and academic environments through the study of Drone Technology. Learn about the command and control networks, hardware, software, security, privacy, ethics, and emerging technologies as they apply to the workforce demands for small uncrewed aircraft systems (sUAS). Learn basic drone flying skills, the rules for recreational drone flying and the required knowledge to become a Federal Aviation Administration (FAA), Part 107 Certified Drone Pilot. Lab fee \$20. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Use technology and communication tools to access, manage and present information in collaboration with others in order to participate effectively in society.
- Select and use the most appropriate UAS software tools for an assigned task.
- Solve problems with UAS hardware and software tools.
- Evaluate and use both desktop and mobile UAS applications.
- Identify information security threats and weaknesses and apply appropriate security measures.
- Identify legal and ethical uses of technology.

Economics

ECO 116 - Inside the Global Economy

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Explore the concepts of the global economy. Discuss national differences in political economy, possible differences in culture and ethical standards, theories of why nations trade and arguments for and against trade, the role of foreign investment, trade blocs (such

as NAFTA and the European Union) and other aspects of economic integration as well as exchange rates and the global monetary system. Examine how firms can compete effectively and ethically in a global marketplace and the importance of exporting, importing, countertrade, global production, marketing, and human resource management. Evaluate reasons why cross-cultural understanding and appreciation are crucial to the effective functioning of a global economy. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Note: *Appropriate for students with no prior study of economics*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the difference between a centrally-managed economic system and a market-driven economic system.
- Explain the concept of comparative advantage and why nations trade.
- Assess critically the arguments for and against free trade, including the local effects of economic displacement and social unrest.
- Identify and list members of major regional trade blocs in the world.
- Define the term "globalization" and assess critically the arguments of those in favor and opposed to globalization.
- Explain why cross-cultural understanding and tolerance is necessary for a global economy to function effectively.
- Describe a multinational corporation, how multinationals serve as engines for globalization, and outcomes, both favorable and unfavorable in the student's view, resulting from participation of multinationals in global economic activity.

ECO 121 - Introduction to Economics

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Identify and illustrate how markets work with the use of demand and supply. Perform microeconomic analysis of consumer and business decision-making under varying economic conditions. Examine how major macroeconomic indicators like the GDP are used to measure the health of the economy. Analyze how fiscal and monetary policies can be used to improve the economy. Note: *Not intended for students planning to major in economics or business*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the central economic problem of scarcity, and how alternative economic systems, particularly a market system, might work to resolve the problem.
- Explain the theoretical mechanics of demand and supply, the rationing and guiding functions of prices, and explain the strengths and weaknesses of economic systems.
- Explain elasticity of demand and apply elasticity concepts to real world problems such as taxation, and how to increase revenues.
- Describe and apply the basic decision-making rules of microeconomics to the theories of pure competition through pure monopoly.
- Apply models of macroeconomic equilibrium, including the tools of fiscal policy.
- Discuss what money is, how it is created, how money affects the economy, the tools of monetary policy.

ECO 211 - Principles of Economics 1

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Explore macroeconomic theory and policy. Identify and illustrate how markets work with the use of demand and supply. Discuss use of national income accounting (GDP) as a measure of the health of the economy. Examine unemployment, inflation and business cycles as they relate to the economy and possible policy prescriptions. Examine and calculate GDP to analyze and implement fiscal and monetary policies. Prereq(s): *Eligibility for MAT 137*. Crosslisted: *Also offered as ECO 211H; credit is not given for both ECO 211 and ECO 211H*. Note: *It is recommended that ECO 211 be taken prior to ECO 212*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the central economizing problem and how a variety of economic systems function (or not function) to resolve the problem successfully.

- Identify the major institutional participants in an economic system and the roles which they play.
- Explain how the performance of an economic system is measured (GDP) and major macroeconomic problems, such as inflation, unemployment, and business cycles.
- Explain consumption theory, investment theory, the multiplier effect, and how they unite to form the concept of macroeconomic equilibrium.
- Explain the theory of fiscal policy and how changes in government spending and taxes produce changes in macroeconomic equilibrium as well as changes in unemployment.
- Describe alternative views of macroeconomic theory and policy, such as the classical and new classical models that emphasize the role of supply-side factors, and the Keynesian and new Keynesian models that emphasize the role of demand-side factors in determining macroeconomic equilibrium.

ECO 211H - Principles of Economics 1- Honors

3 credit hours - Three hours weekly; one term.

This is an Honors course. This course meets the Social and Behavioral Sciences General Education Requirement. Explore macroeconomic theory and policy. Identify and illustrate how markets work with the use of demand and supply. Discuss use of national income accounting (GDP) as a measure of the health of the economy. Examine unemployment, inflation and business cycles as they relate to the economy and possible policy prescriptions. Examine and calculate GDP to analyze and implement fiscal and monetary policies. Prereq(s): *Eligibility for MAT 137. Eligibility for Honors courses.* Crosslisted: *Also offered as ECO 211; credit will not be given for both ECO 211H and ECO 211.* Note: *It is recommended that ECO 211 or ECO 211H be taken prior to ECO 212 or ECO 212H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the central economizing problem and how a variety of economic systems function (or do not function) to resolve the problem successfully.
- Identify the major institutional participants in an economic system and the roles which they play.
- Explain how the performance of an economic system is measured (GDP) and major macroeconomic problems, such as inflation, unemployment and business cycles.
- Explain consumption theory, investment theory, the multiplier effect, and how they unite to form the concept of macroeconomic equilibrium.
- Explain the theory of fiscal policy and how changes in government spending and taxes produce changes in macroeconomic equilibrium as well as changes in unemployment.
- Describe alternative views of macroeconomic theory and policy, such as the classical and new classical models that emphasize the role of supply-side factors, and the Keynesian and new Keynesian models that emphasize the role of demand-side factors in determining macroeconomic equilibrium.

ECO 212 - Principles of Economics 2

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Explore microeconomic theory and international economics. Analyze consumer behavior, economic behavior of the firm under varying conditions, resource allocation, comparative advantage and balance of payments. Prereq(s): *Eligibility for MAT 137.* Crosslisted: *Also offered as ECO 212H; credit will not be given for ECO 212 and ECO 212H.* Note: *It is recommended that ECO 211 be taken prior to ECO 212.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the theories of absolute and comparative advantage and how they serve as the basis for understanding why nations choose to trade.
- Explain the forces which influence international currency markets and how exchange rates are established.
- Calculate supply and demand elasticities and discuss their relevance to firms or policy makers.
- Identify consumer behavior theory graphically and numerically, and explain how it relates to demand for goods and services.
- Describe the theory of production (short and long run) and how it relates to the theory of costs (short and long run).

Identify firms' choices and determine optimal behavior under the conditions of pure competition, monopolistic competition, oligopoly, and monopoly.
Describe the theoretical mechanics of factor markets and how they explain factor income distribution under various combinations of competitive conditions.

ECO 212H - Principles of Economics 2 – Honors

3 credit hours - Three hours weekly; one term.

This is an Honors course. This course meets the Social and Behavioral Sciences General Education Requirement. Explore microeconomic theory and international economics. Analyze consumer behavior, economic behavior of the firm under varying conditions, resource allocation, comparative advantage and balance of payments. Prereq(s): *Eligibility for MAT 137. Eligibility for Honors courses.* Crosslisted: *Also offered as ECO 212; credit will not be given for ECO 212H and ECO 212.* Note: *It is recommended that ECO 211 or ECO 211H be taken prior to ECO 212 or ECO 212H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the theories of absolute and comparative advantage and how they serve as the basis for understanding why nations choose to trade.
- Explain the forces which influence international currency markets and how exchange rates are established.
- Calculate supply and demand elasticities and discuss their relevance to firms or policy makers.
- Identify consumer behavior theory graphically and numerically, and explain how it relates to demand for goods and services.
- Describe the theory of production (short and long run) and how it relates to the theory of costs (short and long run).
- Identify firms' choices and determine optimal behavior under the conditions of pure competition, monopolistic competition, oligopoly, and monopoly.
- Describe the theoretical mechanics of factor markets and how they explain factor income distribution under various combinations of competitive conditions.

ECO 232 - Business Statistics

3 credit hours - Three hours weekly; one term.

Examine data and apply statistical analysis as an aid in business decision-making. Study includes but is not limited to, basic descriptive statistics, normal distribution and z-scores, sampling, one-sample and two-sample hypothesis testing, analysis of variance, regression and correlation analysis. Prereq(s): *Eligibility for any general education math course.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe data, use software to summarize and illustrate data, and interpret data to aid decision-making in business and other contexts.
- Identify appropriate statistical procedures to perform analyses that aid decision-making in business and other contexts.
- Use computers and software to import data from files or other sources and export results.
- Develop confidence intervals and perform hypothesis tests for mean and proportion parameters with and without the use of statistical software.
- Test hypotheses regarding two or more variables using t-tests, ANOVA techniques, regression analysis, and other tests with the help of statistical software.

ECO 233 - Data, Sampling, and Analytics

3 credit hours - Three hours weekly, one term.

Apply topics from Business Statistics to business and professional situations. Perform hypothesis tests with new procedures involving Chi-square tests, multiregression with dummy variables, logistic regression, and time series. Use a software package to develop data management skills such as sorting, subsetting, and cleaning data. Propose and plan analysis projects. Apply results to improve decision making in business contexts. Lab fee \$35. Prereq(s): *ECO 232 or BPA 232 or MAT 135 and eligibility for MAT 137 or higher.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Propose an analytical project to address a desired improvement in a business situation.
- Identify which data characteristics are needed to perform a given hypothesis test.
- Propose sampling strategies to avoid potential sources of bias.
- Conduct basic hypothesis tests and interpret output from a common statistical software package.
- Interpret results of tests for multicollinearity, heteroskedasticity, autocorrelation.
- Apply results of hypothesis tests for means, proportions, and correlation to improve decision making in business and other situations.

ECO 270 - Data and Analysis Project Seminar

2 credit hours - Two hours weekly, one term

Practice the steps that occur before and after a business analytics, such as proposing projects to address a concern, determining data needs, preparing reports for an appropriate audience, interpreting reports, and recommending action. Test hypotheses with data related to human resource management, productivity, and marketing. Lab fee \$35. Prereq or Coreq: ECO 233. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify processes, behaviors, or results that can be improved with the help of a data analysis project.
- Develop an informal proposal for an analysis project that could be conducted by a programmer or statistician.
- Read and interpret analysis reports concerning one-sample hypothesis tests, comparisons of two or more samples, and linear regressions with categorical variables, and logistic regressions.
- Apply results of analysis reports to improve decision making in business, policymaking, or other professional contexts.

ECO 280-299 - Special Topics in Economics

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In-depth study of contemporary issues in economics and topics not fully covered in traditional course offerings. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-30.

Education

EDU 002 - Preparing for Praxis Core: Reading Skills

1 noncredit hour - Three hours weekly; five sessions.

Review the application of reading skills necessary for successful completion of Praxis Core Academic Skills for Educators Test. Reviews skills for comprehension of reading material and critical analysis of content as well as emphasize test-taking strategies. Praxis Core is a state-mandated assessment required for earning teacher certification.

EDU 003 - Preparing for Praxis Core: Math Skills

1 noncredit hour - Three hours weekly; five sessions.

Review the application of math skills necessary for successful completion of Praxis Core Academic Skills for Educators Test. Reviews key mathematics concepts, including problem solving, reasoning, estimating and interpreting quantitative information. Emphasize test-taking strategies. Praxis Core is a state-mandated assessment required for earning teacher certification.

EDU 004 - Preparing for Praxis Core: Writing Skills

1 noncredit hour - Three hours weekly; five sessions.

Review the application of writing skills necessary for successful completion of Praxis Core Academic Skills for Educators Test. Reviews the grammar and language rules in writing, including error recognition and essay writing. Emphasize test-taking strategies. Praxis Core is a state-mandated assessment required for earning teacher certification.

EDU 111 - Foundations of Education

3 credit hours - Three hours weekly; one term.

Explore the major developments in the history of American education. Includes a comprehensive overview of the historical, philosophical, sociological, political and legal foundations of education. Learn about the structure and organization of schools, influences on teaching and learning, roles of classroom teachers and contemporary policy and issues. Lab fee \$85. Prereq(s): *ENG 101/ENG 101A*. Note: *Course requirements include 15 hours of fieldwork, which requires an additional cost and a background check.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

EDU 131 - Children's Literature

3 credit hours - Three hours weekly; one term.

Examine literary trends and materials for young children. Explore specific genres, curriculum issues, authors and illustrators, literature selection and teaching strategies. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Identify significant milestones, contemporary issues, debates, and trends in children's literature.
2. Describe the cognitive and affective development patterns of children with reference to their ability to comprehend themes, plots, and values in literature.
3. Identify genres and types of literature for children.
4. Apply norms of critical judgment to select and evaluate books for children.
5. Discuss the impact of diverse authors in children's literature.
6. Identify various activities for integrating literature across the curriculum.

EDU 132 - Introduction to Early Childhood Development

3 credit hours - Three hours weekly; one term.

Examine the conceptual framework for understanding the role of the early childhood professional. Gain a comprehensive overview of historical, philosophical and social influences. Explore contemporary trends, issues and practices in the early childhood education field. Lab fee \$85. Prereq(s): *ENG 101/ENG 101A* Note: *Course requirements include 15 hours of fieldwork, which requires an additional cost and a background check.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe learning theories, principles of child development, historical events and trends in Early Childhood education and apply this knowledge to classroom teaching.
2. Use systematic observations, documentations, and other effective assessment strategies in a responsible way to positively influence children's learning and development.
3. Demonstrate knowledge of modern families and communities, which include culturally and linguistically diverse groups, to foster respectful, reciprocal relationships.
4. Demonstrate understanding of learning domains and developmentally appropriate practices and 1reflect on teaching practices to enhance children's learning and development.
5. Identify characteristics of high-quality early childhood professionals who use ethical guidelines and NAEYC professional standards.
6. Translate fieldwork classroom observations into effective teaching practices.

EDU 133 - Growth and Development

3 credit hours - Three hours weekly; one term.

Examine the growth and development of children from infancy through adolescence and the influence of development on the delivery of effective education programs. Learn about social, emotional, cognitive and physical development of children and the application of theories of child development and learning to education. Lab fee \$85. Prereq(s): *EDU 111 or EDU 132 or permission of assistant director/department chair*. Note: *Course requirements include 15 hours of fieldwork, which requires an additional cost and a background check.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Explain the developmental appropriateness of programs for children.

2. Identify developmental milestones within the prenatal period, period of infancy and toddlerhood, early childhood years and school-age years through adolescence.
3. Discuss the cognitive, psychosocial, linguistic, moral, and physical development of children.
4. Discuss the role of the family, school, and community in relation to the development of children.
5. Identify the principles and components of behavioral, cognitive, personality, sociocultural and moral theories.
6. Implement the major observation methods and assessment techniques used to study children.
7. Translate fieldwork classroom observations into effective teaching practice.

EDU 135 - Children's Health, Nutrition and Safety

3 credit hours - Three hours weekly; one term.

This course meets the Wellness Requirement. Discover the relationship of health, nutrition and safety to learning. Learn about proper health, nutrition, physical fitness and safety from infancy through adolescence. Examine a holistic view of children through exploration of topics such as brain research, environmental concerns, malnutrition, illness, family involvement, emergency preparedness and child abuse and neglect. Prereq(s): *ENG 101/ENG 101A*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

At the conclusion of this course, the student should be able to:

- a. Describe the relationship between health and learning.
- b. Identify concerns regarding health and physical fitness in self, children, families, and diverse populations
- c. Describe the impact of nutrition on human development and learning.
- d. Examine and practice methods of prevention, detection, and management of illness, injury, and disease in children
- e. Demonstrate and model healthy behavior choices that promote self-care

EDU 201 - Engagement Coaching Course I: Engage

3 credit hours - 45 hours lecture total; one term.

Examine the Engagement Coaching Model and its application to teaching and learning. Explore the essential coaching skills, International Coach Federation's (ICF) core competencies, ethical guidelines, and variety of tools and activities that provide access points for coaching and personal and professional development. Prereq(s): *Eligibility for ENG 101 /ENG 101A*. Note: *For participants interested in becoming a certified coach, this 3-credit course fulfills the first course requirement of the 60-hour coach-specific training requirement for the Associate Certified Coach (ACC) ACSTH pathway. To become a certified coach, the participant must complete EDU 201, EDU 202 and EDU 203 and then fulfill the additional requirements stated by the International Coach Federation.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon completion of this course, the participant will be trained in the ICF Core Competencies and will be able to:

- Discern between coaching, mentoring, therapy, and counseling
- Identify key elements necessary to establish a coaching agreement with a prospective new client
- Identify the key factors which influence a designed relationship of trust and respect with a client
- Examine ethical guidelines and professional standards that apply to all coaching situations
- Demonstrate essential coaching skills such as active listening and powerful questioning
- Apply coaching tools and activities such as value mining and life and career bridges to coaching situations to create awareness
- Identify and explore a client's core values and the impact core values make on work/life fulfillment
- Identify a variety of actions clients can take to create on-going learning for themselves
- Use planning, goal-setting, and accountability to deepen a client's responsibility to take action.

EDU 202 - Engagement Coaching Course II: Expand

3 credit hours - 45 hours lecture total; one term.

Examine new strategies to assist clients in expanding their perspectives and designing actions to move the client forward. Deepen and build on the foundational learning from Course I: Engage including essential coaching skills, International Coach Federation's (ICF)

core competencies, and ethical coaching guidelines. Apply the components of the coaching agreement to design meaningful relationships with coaching clients. Prereq(s): *EDU 201 with a grade of C or better or permission of department chair.* Note: *For participants interested in becoming a certified coach, this 3-credit course fulfills the second course requirement of the 60-hour coach-specific training requirement for the Associate Certified Coach (ACC) ACSTH pathway. To become a certified coach, the participant must complete EDU 201, EDU 202 and EDU 203 and then fulfill the additional requirements stated by the International Coach Federation.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon completion of this course, the participant will be trained in the ICF Core Competencies and will be able to:

- Examine perspectives and alternative possibilities for overcoming obstacles
- Apply strengths-based coaching to a client in order to identify strengths and help a client realize their full potential
- Demonstrate the components of a coaching agreement and capacity to design co-creative relationships
- Apply coaching tools and activities such as visualizations and sage identification to coaching situations
- Demonstrate and deepen essential coaching skills such as reframing, awareness of resonance, metaphor use, and inquiry
- Apply a written feedback tool to coaching situations
- Identify a client's stake and its relationship to achieving the intended impact
- Identify a variety of actions clients can take to create on-going learning for themselves
- Use planning, goal-setting, and accountability to deepen a client's responsibility to take action.
- Examine ethical guidelines and professional standards that apply to all coaching situations

EDU 203 - Engagement Coaching Course III: Experience

3 credit hours - 45 hours lecture total; one term.

Examine techniques to help clients be present to a broader range of emotions to experience all aspects of life in a more impactful, fulfilling way. Deepen and build on foundational learning from Course I: Engage and Course II: Expand, in order to integrate all of the components of the Engagement Coaching Model and create a broad coaching range. Prereq(s): *EDU 202 with a C or better or permission of the department chair.* Note: *For participants interested in becoming a certified coach, this 3-credit course fulfills the third course requirement of the 60-hour coach-specific training requirement for the Associate Certified Coach (ACC) ACSTH pathway. To become a certified coach, the participant must complete EDU 201, EDU 202 and EDU 203 and then fulfill the additional requirements stated by the International Coach Federation.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon completion of this course, the participant will be trained in the ICF Core Competencies and will be able to:

- Articulate emotions seen in the client and stay present to what is there in service to the client
- Develop the coach's intuition as a powerful tool for reflecting to the client what they are seeing and/or noticing
- Support the client when they are challenged to stay with their emotion(s)
- Integrate and apply a broadened coaching range across situations
- Demonstrate essential coaching skills such as self-management, mirroring, and intuition
- Explore ethical guidelines and professional standards that apply to all coaching situations
- Apply a written feedback tool to coaching situations
- Create action plans for self and for the client that clarify growth opportunities
- Implement structures that support the coach to sustain powerful action to realize goals and continue evolving as a coach

EDU 204 - Engagement Coaching Course IV: Integration

3 credit hours - 45 hours lecture total; one term

Demonstrate and strengthen essential coaching skills through the integration and application of all components of the Engagement Coaching Model for clients and small groups. Implement structures that support the coach to sustain powerful action to realize goals and continue evolving as a coach. Deepen, enhance and incorporate coaching skills learned in the previous Engagement Coaching courses (EDU 201, 202 and 203). Prereq(s): *EDU 203 with a grade of C or better or permission of department chair.* Note: *For participants interested in becoming a certified coach, the participant must complete EDU 201, EDU 202 and EDU 203 and then fulfill the additional requirements stated by the International Coach Federation, which includes a coaching log demonstrating 100 hours of coaching and an additional assessment fee from the International Coach Federation.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon completion of this course, the participant will be able to

- Apply all components of the Engagement Coaching Model to clients and small groups
- Integrate and apply a broadened coaching range with clients and small groups
- Demonstrate essential coaching skills
- Discuss the ethical and professional issues that may occur in coaching
- Apply a written feedback tool to coaching situations
- Create action plans for self and for the client that clarify growth opportunities
- Implement structures that support the coach to sustain powerful action to realize goals and continue evolving as a coach

EDU 205 - Engagement Coaching Course V: Impact

3 credit hours - Three hours lecture weekly, one term

Apply new tools and activities in the coaching process. Demonstrate an elevated level of professional coaching standards and impact. Integrate a complete range of coaching skills learned in the previous Engagement Coaching courses (EDU 201, EDU 202, and EDU 203). Prereq(s): *EDU 203 with a grade of C or better or permission of department chair.* Note: **Note:** *For participants interested in becoming an International Coach Federation (ICF) certified coach, this 3-credit course fulfills the fifth course requirement of the 125-hour coach-specific training requirement for the ICF Associate Certified Coach (ACC) ACTP pathway. To become a certified coach, the participant must complete EDU 201, EDU 202, EDU 203, EDU 204, and EDU 205 and pass a performance evaluation along with the additional ICF requirements stated in the ACC credentialing ACTP pathway.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon completion of this course, the participant will be able to:

- Integrate all components of the Engagement Coaching Model to support all clients, small groups and teams.
- Identify and acknowledge the client's unique talents and behaviors during the coaching process.
- Apply culturally sensitive coaching practices that consider power, privilege and culture
- Demonstrate and enhance coaching dispositions such as confidence, curiosity and intuition.
- Apply coaching tools and activities to evaluate mindset and integrate new and deepened awareness, insight, and learning.
- Support the client as they identify themes and patterns in their own life.*
- Demonstrate ethical guidelines and professional standards that apply to all coaching situations
- Apply a written feedback tool to coaching situations
- Promote ongoing and sustainable development of both coach and client to reaffirm goals and accountabilities that stimulate action

EDU 209 - Online Instructional Methods

1 credit hour - One hour weekly, one term.

Examine the interactive nature of instructing a course in the online environment. Practice online instructional pedagogy, choose and evaluate resources, develop and discover multimedia options, and cultivate student assessment and feedback practices. Note: *This course is online and can be taken for credit as EDU 209 or for noncredit as TAD 321.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

1. Identify and examine engaging web based, hybrid, and online instructional strategies
2. Practice high quality online instructional strategies (pedagogy)
3. Evaluate online resources including multimedia options
4. Cultivate student assessment and feedback practices.

EDU 210 - Teaching the Adult Learner

1 credit hour - Three hours weekly; five weeks.

Learn about theory and teaching methods related to instructing the adult learner. Focus on identifying principles of adult learning, adult learning styles and motivation. Emphasizes understanding techniques and teaching strategies that work to create an active learning community for adult learners. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Discuss current research findings relative to adult learning.
- Describe the characteristics of adult learning and their impact on classroom instruction.
- Explain how the instructor can influence the motivational needs of the adult learner.
- Identify strategies to create an active learning environment.
- Discuss the various influences on developing a learning community.
- Recognize how one's own behavior contributes to the establishment of a positive learning environment.
- Examine a variety of methods for formative classroom assessment.
- Examine strategies for designing and implementing effective presentation for the adult audience.

EDU 211 - Educational Psychology

3 credit hours - Three hours weekly; one term.

Discover the basic theories of learning and teaching and the application of theory to educational environments. Examine the adaptation of the concepts of behavioral, cognitive and constructivist learning theories to teaching and managing an effective learning environment. Learn about the principles of motivation, classroom management and assessment of student performance. Lab fee \$85. Prereq(s): *EDU 242 or EDU 242H OR a bachelor's degree or permission from department chair.* Coreq(s): *EDU 242 or EDU 242H.* Note: *Course requirements include 15 hours of fieldwork, which requires an additional cost and a background check. Students must have a 3.0 GPA or passage of basic skills testing in order to graduate with the AAT degree.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Examine the impact of educational psychology as related to current teaching and learning trends.
2. Identify classroom management strategies for personal reflection as well as studying the impacts on the modern-day classroom.
3. Discuss the role assessment plays in the educational system.
4. Analyze demographic data for impacts on current trends regarding factors connecting to family involvement, disabilities, multicultural education model, and diversity.
5. Explore and understand motivation, cognitive theory, constructivism, moral theories, psychosocial development, sociocultural theory, and behaviorism.
6. Translate fieldwork classroom observations into effective teaching practice.

EDU 212 - Engaging and Supporting Students

1 credit hour - Three hours weekly; five weeks.

Examine strategies that support student retention and persistence by reviewing concepts in motivation and learning. Explore and practice communication and coaching skills to engage adult learners and build a collaborative learning community. Create a toolkit of campus resources that support student learning and development and contribute to successful completion. Strategies learned in this course will apply to face-to-face, hybrid/blended, and online course formats. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

At the conclusion of this course, the student should be able to:

Examine strategies that support student retention and persistence
Connect the theory of motivation to student development
Create a toolkit of campus resources that support student learning and engagement
Explore collaborative learning and classroom community building as a pedagogy of involvement
Develop and practice communication and coaching strategies

EDU 213 - Strategies for Teaching Adults with Diverse Needs

1 credit hour - Three hours weekly; five weeks.

Investigate and analyze a variety of learning styles, disabilities, backgrounds, and instructional strategies for meeting the needs of diverse learners. Examine topics such as brain research and multiple intelligences pertaining to teaching adults with diverse needs. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify and explain a variety of diverse needs including students with disabilities and at risk populations
Connect the theory of multiple intelligences to classroom pedagogy
Practice constructing and evaluating learning tasks that meet the needs of a variety of differing abilities
Create an instructional strategies toolkit including a variety of learning tasks
Discuss contemporary trends and issues relative to teaching adults with diverse needs

EDU 214 - Introduction to Special Education

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. This course meets the Technology Requirement. Identify the categories of special education and the characteristics of special learners. Analyze the diverse needs of special education students and application of appropriate instructional adaptations. Examine the historical overview of special education legislation and legal issues. Prereq(s): *EDU 133 or a bachelor's degree.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the general characteristics of individuals with specific learning disabilities, speech or language impairments, hearing impairments, visual impairments, physical and health disabilities, emotional disabilities, intellectual disabilities, autism, and students considered gifted and/or talented.
Identify inclusive instructional approaches such as Response to Intervention (RtI), Universal Design for Learning (UDL), Direct Instruction (DI), and Specially Designed Instruction (SDI) to differentiate instruction in the least restrictive environment.
Explain the historical and legal evolution of providing education for individuals with special needs.
Describe the procedures for identification, assessment, eligibility, and placement of students with special needs.
Describe the range of resources, early intervention, related services, and assistive technologies available for students with special needs.
Describe the legal rights and responsibilities of schools, families, students, teachers, and other professionals related to the education of students with special needs.
Explain Individualized Educational Program (IEP), Individualized Family Service Plan (IFSP), Individualized Transition Plan (ITP), and 504 Plan.
Analyze and use data derived from assessments to develop intervention plans aligned to the specific needs of individual students.

EDU 215 - Principles of Instructional Assessment

3 credit hours - Three hours weekly; one term.

Explore the principles and concepts of educational measurement and the application of assessment measures and processes in the learning environment. Practice using various assessment techniques, interpreting assessment data and recognizing ethical issues in the assessment of learning. Discover the uses of portfolios, development of grading and scoring procedures and construction and analysis of teacher-made tests. Prereq(s): *A bachelor's degree and seeking teacher certification or permission from department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Explain the terminology and relationships between teaching, learning, and assessment.
2. Discuss the impact of traditional and alternative assessment practices on K-12 students and educators.
3. Discuss the various factors that impact the assessment process.
4. Identify the principles and components of assessment, testing, diverse assessment types, as well as the ethical impact of these assessments on students.
5. Implement educational assessment research in the field of education.

EDU 216 - Technology for Educators

1 credit hour - Three hours weekly; five weeks.

Survey technologies for educational learning environments. Examine the issues and challenges of making informed and creative decisions regarding the instructional use of technology. Learn about the integration of technologies to enhance the instructional process by increasing engagement and appealing to multiple learning styles. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify promising practices related to the use of emerging technology in education to support integration of technology in the classroom.

Analyze new applications for existing and emerging technologies.

Design evaluation rubrics for technology selection.

Identify and discuss relevant issues related to the application and use of instructional technology.

EDU 217 - Energizing Your Presentations

1 credit hour - Three hours weekly; five weeks.

Examine the principles of effective presentation design. Explore basic principles of the teaching-learning process. Discover how to optimize learning through the pedagogical process. Practice how to actively engage participants in the learning process.

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify the principles of effective presentation design.

Apply brain-based learning theory to instructional design

Examine ways to motivate learners.

Acquire knowledge of differentiating instruction to meet learner needs.

Examine strategies for engaging & energizing the audience.

EDU 219 - Assessing the Adult Learner

1 credit hour - Three hours weekly; five weeks.

Analyze the current thinking on the practice of assessing adult learners in a comprehensive and practical fashion. Examine the principles of assessment including planning for assessment, creating an assessment toolkit, and understanding and using assessment results. Investigate the uses of common assessment tools, including teacher-made tests, commercial materials, authentic assessment, alternative assessments and performance based assessments. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify the principles of effective instructional assessment for adult learners

Connect curriculum mapping to planning meaningful assessment that informs instruction

Create an instructional assessment toolkit including rubrics, teacher made tests, authentic assessments and portfolios

Practice summarizing and using assessment results to inform instruction

Discuss contemporary trends and issues relative to the assessment of instruction in adult learning (including diversity, learning styles, at risk learners)

EDU 220 - Innovation in Education

1 credit hour - Three hours weekly; five weeks.

Investigate and analyze a variety of college trends, issues, and challenges and the extent to which they impact student learning, student development, and higher education in general. Examine topics such as new instructional models, alternative educational resources, and innovations described as "disruptive" to traditional college practices.

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explore and apply the topic of disruptive innovation to the college classroom
- Examine how to facilitate student success by using innovative instructional models and online classroom tools
- Explore Open Educational Resources (OER) for a specific content or discipline
- Create an innovative classroom toolkit to meet the needs of diverse learners
- Discover and share innovative trends relative to student engagement and adult learning

EDU 223 - Infant and Toddler Career and Technical Education

3 credit hours - Three hours weekly; one term.

Identify theory and teaching methods related to instructing high school students entering into the Child Development Associate (CDA), Infant and Toddler Career and Technical Education (CTE) program. Students will complete the curriculum, as well as identify and establish training practices to meet Maryland State Department of Education (MSDE)/Office of Child Care (OCC) pre-service special topics standards. Students will create an Infant and Toddler CDA aligned professional portfolio. Prereq(s): *A bachelor's degree or permission from department chair.*

Course Outcomes

- Examine the history and importance of the Child Development Associate (CDA) Credential and the link to Career and Technical Education (CTE).**
- Examine and evaluate Early Childhood Development curriculum.**
- Identify and establish training practices to meet Maryland State Department of Education (MSDE)/Office of Child Care (OCC) pre-service special topics standards.**
- Create an Infant and Toddler CDA aligned professional portfolio.**

EDU 228 - Preschool Career and Technical Education

3 credit hours - Three hours lecture weekly; one term.

Identify theory and teaching methods related to instructing high school students entering into the Child Development Associate (CDA), Preschool Career and Technical Education (CTE) program. Students will complete the curriculum, as well as identify and establish training practices to meet Maryland State Department of Education (MSDE)/Office of Child Care (OCC) pre-service special topics standards. Students will create a Preschool CDA aligned professional portfolio. Prereq(s): *A bachelor's degree or permission from department chair.*

Course Outcomes

- Examine the history and importance of the Child Development Associate (CDA) Credential and the link to Career and Technical Education (CTE);
- Examine and evaluate Early Childhood Development curriculum.
- Identify and establish training practices to meet Maryland State Department of Education (MSDE)/Office of Child Care (OCC) pre-service special topics standards;
- Create a Preschool CDA aligned professional portfolio.

EDU 229 - Observing and Assessing Young Children

1 credit hour - 3 hours weekly; 5 weeks.

Learn about the importance of observation and assessment in evaluating young children. Identify appropriate observation methods, interpret collected data and apply assessment to the children and classroom. Recognize and implement observation techniques to create teaching strategies that enhance children's development. Prereq(s): *EDU 132 or permission of department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- a. Describe the purpose of and guidelines for using observation as a tool for assessing young children.
- b. Identify observational methods for collecting and assessing young children in the various developmental domains.
- c. Explain the legal, ethical and professional responsibilities of the educator in using observations to assess young children.
- d. Accurately interpret observational data to assess young children.
- e. Compare and contrast standardized testing vs. individual assessment of young children.

EDU 230 - Educator Portfolio Development

1 credit hour - Three hours weekly; five weeks.

Learn about setting the purpose of the portfolio, then selecting artifacts that support and enhance that purpose. Develop skills needed to identify, analyze and reflect on artifacts appropriate for inclusion in a portfolio, which documents accomplishments and talents. Examine the alignment and organization of artifacts to reflect growth and learning that have occurred as a result of the creation of each artifact. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Determine the purpose(s) of the portfolio.
2. Select artifacts to support the purpose(s) of the portfolio.
3. Align artifacts with course objectives, national standards and/or job requirements.
4. Discuss various individuals/events that influenced your career choice.
5. Examine personal talents and skills related to the field of education.
6. Discuss the relevancy of artifacts to the purpose(s) of the portfolio.
7. Examine personal growth related to each selected artifact.
8. Design a portfolio that effectively highlights educational or job accomplishments.

EDU 231 - Infant/Toddler Child Care

3 credit hours - Three hours weekly; one term.

Examine the philosophy of infant and toddler education with basic child development theory that focuses on the physical, emotional, social and cognitive development of children from birth through 3 years of age. Explore the infant/toddler curriculum, select age-appropriate materials and methods and create effective infant/toddler child care programs. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Identify patterns in the physical, emotional, social, language, and cognitive development of infants and toddlers.
2. Discuss both historical, and current trends in infant/toddler childcare.
3. Describe the importance of caregiver-child interactions in infant/toddler development.
4. Analyze the appropriateness of equipment and materials used in the infant/toddler environment.
5. Design appropriate, relationship-based activities that support the growth of a variety of developmental needs for infants and toddlers.
6. Examine strategies for developing positive caregiver-parent-child relationships within a diverse childcare environment.

EDU 232 - School-Age Child Care

3 credit hours - Three hours weekly; one term.

Examines the roles and responsibilities of providers of child care for children from 4 through 12 years of age. Focuses on skills in program planning, communication skills and behavior management. Emphasizes the selection and implementation of appropriate activities that promote optimum development and positive self-concept of children in the school-age setting. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Outline the major historical foundations and current trends in school-age childcare.
2. Analyze principles of guiding child growth based on developmental needs of children ages four-twelve years.
3. Discuss the implications of special needs and disabilities in school-age childcare.
4. Identify programming and planning needs for school-aged childcare in order to select appropriate methods and materials.
5. Describe the importance of teaching school-aged children life skills.
6. Identify effective behavior management techniques for school-aged children.
7. Describe the roles of adults in school-age childcare.
8. Develop procedures for formal and informal communication with parents and families.

EDU 235 - Child Care Administration

3 credit hours - Three hours weekly; one term.

Examine leadership skills, management practices and supervisory functions required for effective administration of a child development center. Explore state requirements related to physical facilities, staffing, program design and budgeting and financial responsibilities. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the components for establishing and maintaining an effective childcare program including understanding of needs assessment, program philosophy, financial and budgetary responsibilities, program marketing, and licensing and regulations.
2. Identify issues involved in designating and developing appropriate center space.
3. Develop procedures and policies that foster effective and respectful relationships with staff and clientele.
4. Discuss the influence of marketing and publicity in the operation of the childcare center.
5. Generate necessary administrative documents, including operational forms and outlines of handbooks.
6. Discuss management styles that facilitate effective relationships with staff, board, parents, and children.
7. Complete program and staff evaluation that result in data useful for program and center improvement.
8. Demonstrate effective interpersonal skills that foster a positive, supporting environment.
9. Discuss current research relative to administration and supervision of a childcare facility.

EDU 236 - Culturally Responsive Instruction

1 credit hour - Three hours weekly; five weeks.

Examines the philosophy of education that is multicultural and its relevance and connection to student achievement for all learners. Examines strategies to infuse education that is multicultural into curriculum, instruction, assessment, school climate and instructional materials selection. Identifies individual cultural attitudes, teaching styles, learning styles and classroom practices as preparation for better addressing the needs of students. Research from state and national resources identifying "best practices" will be explored to identify strategies, practices and principles that assist in eliminating gaps among student groups and accelerating student achievement. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Explore individual cultural experiences and identify how they impact the learning environment of students.

Define the term culture and how it impacts student learning.

Describe mainstream American culture and how it shapes teaching and learning.

Explore factors of personal cultural identity.

Analyze instructional materials and texts, modes of communication and teaching/ learning strategies for cultural bias.

Become aware of some of the forms of bias in curricular and instructional materials.

Examine instructional materials for biases, including invisibility, stereotyping, imbalance, unreality, fragmentation/ isolation, and linguistic patterns.

Identify classroom practices and methods of communication that may be problematic for members of various cultures.

Design an instructional lesson (or unit) plan that includes strategies that support the tenets of an education that is multicultural, differentiated instruction, diverse learning styles, multiple intelligences, and multiple perspectives.

Define and use terminology related to learning styles and differentiated instruction and explain their relevance to differentiation of instruction and student learning.

Understand learning styles theory and how it applies to students from diverse backgrounds.

Use formal/ informal learning style assessments to ascertain the teacher and students' learning styles.

Identify the multiple intelligences and the benefits to the diverse learner.

Use a variety of assessment tools to identify their students' multiple intelligences and their own.

Incorporate assessment strategies into lesson plan activities that capitalize on students' learning styles.

Describe a student from a culture different from their own and describe three instructional strategies that are responsive to the student's cultural background.

Review current research regarding cultural proficiency.

Define the essential elements of cultural proficiency at a personal level and an institutional level.

Discuss how the deficit model of teaching and low student expectations can arise from unrecognized gaps in students' and teachers' cultural backgrounds.

Identify strategies that are culturally responsive to diverse students.

EDU 239 - Quality Family and School Partnerships

1 credit hour - Three hours weekly; five weeks.

Explore the framework of comprehensive school, family, and community partnerships. Examine strategies for communicating with families. Identify application for school and community agencies. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Describe each of the six types of involvement of Joyce Epstein's Parent/Family Model

Measure and analyze school, family and community partnerships in their local center, school or related setting.

Examine and revise, if necessary, current mission and philosophy statements of their childcare center and/or school to include a commitment to parent/family involvement in all six standards.

Develop an action team for successful home-school partnerships.

Apply knowledge and research in each of the six types of involvement to the development of a comprehensive written action plan related to parent/family involvement.

EDU 241 - Methods of Teaching for Elementary Education

3 credit hours - Three hours weekly; one term.

Discover teaching methodology for effective instruction in elementary classrooms. Emphasis on the development of learning objectives, selection of instructional techniques and use of materials and resources appropriate for elementary content/curricula.

Explore basic principles of classroom management and applies theories of learning and teaching to the organization and presentation of elementary lessons. Prereq(s): *A bachelor's degree and seeking teacher certification or permission from department chair.*

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Identify common instructional strategies and assessment techniques consistent with best teaching practices.
2. Identify differentiated instructional strategies appropriate for elementary classrooms.
3. Describe a systematic process for sequencing instruction based on the taxonomies of learning.
4. Identify differentiated instructional strategies appropriate for elementary classrooms.
5. Discuss current research topics relevant to best practices in elementary pedagogy.
6. Develop lessons that meet the diverse needs and characteristics of elementary students.
7. Compare and contrast common approaches to effective classroom management.
8. Implement lessons that specify appropriate goals, activities, and assessment for elementary specific content.

EDU 242 - Foundations of Reading and Language Arts

3 credit hours - Three hours weekly; one term.

Examine the theories, processes and acquisition of reading and language arts. Identify the cognitive, linguistic, social and physiological factors involved in oral and written language development. Prereq(s): *EDU 133 and MAT 221 or MAT 222 or MAT 223;*

or a bachelor's degree or permission from department chair. Crosslisted: Also offered as EDU 242H; credit is not given for both EDU 242H and EDU 242. Note: EDU 242 is a Maryland State Department of Education approved reading course. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- a. Identify the component processes involved in reading and writing.
- b. Apply knowledge of the component processes involved in reading and writing to understand the reading and writing processes of native English speakers and English learners.
- c. Describe how key components of reading and writing processes develop and what biological, cognitive, linguistic and sociocultural factors may influence literacy development.
- d. Understand characteristics that define evidence-based practices in literacy programming and instruction.
- e. Use evidenced-based criteria to select and organize print and multimedia resources for teaching reading and writing.
- f. Use a variety of print and multimedia resources to engage students as readers and writers.

EDU 242H - Foundations of Reading and Language Arts – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. Examine the theories, processes and acquisition of reading and language arts. Identify the cognitive, linguistic, social and physiological factors involved in oral and written language development. Prereq(s): *Eligibility for Honors courses and EDU 133 and MAT 221 or MAT 222 or MAT 223; or a bachelor's degree or permission from department chair.* Crosslisted: Also offered as EDU 242; credit is not given for both EDU 242H and EDU 242. Note: EDU 242 is a Maryland State Department of Education approved reading course. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- a. Identify the component processes involved in reading and writing.
- b. Apply knowledge of the component processes involved in reading and writing to understand the reading and writing processes of native English speakers and English learners.
- c. Describe how key components of reading and writing processes develop and what biological, cognitive, linguistic and sociocultural factors may influence literacy development.
- d. Understand characteristics that define evidence-based practices in literacy programming and instruction.
- e. Use evidenced-based criteria to select and organize print and multimedia resources for teaching and writing.
- f. Use a variety of print and media resources for teaching reading and writing.

EDU 243 - Methods of Effective Reading Instruction

3 credit hours - Three hours weekly; one term.

Design and deliver literacy instruction for a diverse community of learners. Identify techniques for building word recognition, integrating reading and writing, and enhancing understanding of text. Manage speaking and listening opportunities that lead to active, equitable and academically oriented conversations for all students. Identify the role of classroom literacy instruction in a multi-tiered system of supports and determine how to work with colleagues to provide evidence-based interventions for students who struggle as readers and writers. EDU 243 is a Maryland State Department of Education approved reading course. Prereq(s): *A bachelor's degree and seeking teacher certification or permission from department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the theoretical models for reading and writing and explain how these models guide instruction in the classroom.
- Explain how vocabulary (oral and print) and background knowledge influence reading comprehension.
- Describe key components in reading and writing development and what factors may impact that development.
- Explain the importance of foundational literacy skills in developing independent readers and writers.
- Plan systematic, explicit, intentional, and effective instruction for reading and writing.
- Support literacy connections between home, school, and community partners.
- Plan instruction that includes active student discussions around learning tasks.
- Support students with linguistic/language variations.

Explain and utilize the procedures and practices associated with a multi-tiered system of supports (MTSS).
Describe characteristics of dyslexia and dysgraphia and plan intervention supports for these students.

EDU 244 - Assessment for Reading Instruction

3 credit hours - Three hours weekly; one term.

Examine the techniques, processes, and instruments for assessing reading performance. Administer assessment tools, interpret assessment data, and diagnose reading deficiencies. Utilize assessment data for selecting instructional methods, facilitating instructional decisions, monitoring student performance and communicating assessment results in a variety of contexts. EDU 244 is a Maryland State Department of Education approved reading course. Prereq(s): *A bachelor's degree and seeking teacher certification or permission from department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify literacy assessments and explain their foci, purpose, and application.
- Explain the indicators and types of reading and writing disabilities.
- Explain the purposes of each type of literacy assessment.
- Establish instructional and programmatic goals and plans linked to assessment data.
- Explain the role of literacy assessment in a multi-tiered system of supports.
- Explain the types and features of literacy assessments.
- Explain the legal and ethical issues related to meaningful evaluation of students.
- Select or design assessments to make valid instructional decisions.
- Analyze assessment data.
- Communicate assessment information.

EDU 245 - Materials for Teaching Reading

3 credit hours - Three hours weekly; one term.

Select, evaluate, and organize materials for teaching reading, writing, and related literacy skills. Identify characteristics of effective literacy programming and instruction. Use a variety of strategies to engage students with print and multimedia resources for the purpose of reading and writing. Examine how best to provide culturally responsive literacy instruction that promotes all students' cultural competence through inclusive and equitable literacy learning opportunities. EDU 245 is a Maryland State Department of Education approved reading course. Prereq(s): *A bachelor's degree and seeking teacher certification or permission from department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Use evidenced-based criteria to select and organize a variety of instructional materials that support the purposes for reading and writing
- Identify characteristics of effective literacy programming and instruction
- Identify strategies for engaging students with print and multimedia resources as readers and writers across the curriculum
- Evaluate print and multimedia resources to determine appropriateness for reader developmental level, interest, fluency, cultural background, and students with limited English proficiency

EDU 247 - Early Childhood: Methods and Materials

3 credit hours - Three hours weekly; one term.

Examine methods and materials that promote the social, emotional, physical and cognitive development of young children. Learn about application of early childhood development principles to the selection of materials and methods appropriate for early childhood environments. EDU 133 and EDU 247 fulfill state educational requirements for employment in a group child care center. Lab fee \$85. Prereq(s): *EDU 214.* Prereq or Coreq: *EDU 242.* Note: *Course requirements include 15 hours of fieldwork, which requires an additional cost and a background check.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Explain various learning theories when planning, implementing and reflecting on lessons developed for young children.
2. Demonstrate the use of systematic observation, documentation and other effective assessment strategies when planning lessons and

monitoring children's academic progress.

3. Utilize effective communication methods when working with parents and families.
4. Demonstrate understanding of learning domains, content areas, and developmentally appropriate practices to reflect on the teaching and learning process.
5. Utilize effective teaching practices for the purpose of improving and differentiating instruction to meet the needs of all students.
6. Identify characteristics of high-quality early childhood professionals who use ethical guidelines and NAEYC professional standards.
7. Identify and utilize appropriate materials and instructional methods based on research to support the learning of young children.
8. Translate fieldwork classroom observations into effective teaching practice.

EDU 248 - Instructional Strategies

1 credit hour - One hour weekly; one term.

Provides knowledge and skills specific to the use of instructional strategies and methods in the process of analyzing the teaching environment and individual student needs. Describes adaptations/accommodations or modifications of instruction that will best facilitate learning and the strategies and methods associated with learning. Designed to provide skills for supporting students in regular and inclusive classrooms, resource rooms or self-contained settings. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

EDU 251 - Behavior Management

1 credit hour - One hour weekly; one term.

Learn about the causes of human behavior and refines technical skills in dealing with the various behaviors of students with special needs. Develop awareness of the feelings that such behaviors arouse in professionals and support staff who work with these students and discover the interconnectedness of the various components that lead to a well-managed classroom.

EDU 252 - Autism Spectrum Disorders

1 credit hour - One hour weekly; one term.

Surveys and examines autism spectrum disorders and the characteristics related to this increasingly prevalent developmental disorder. Includes functional, sensory, cognitive, communication and social/emotional skills of school age children with autism. Provides an emphasis on school and community implications related to autism and maximizing learning through various strategies and interventions. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Course Outcomes

Demonstrate ability to relate federal legislation to transition needs of students with disability

- Identify needs of SWD at post-secondary level
- Relate these needs to appropriate federal laws
- Examine legal and ethical issues related to SWD at the post-secondary level

Describe best practices and exemplary models of transition services for SWD

- analyze rationale for integrating transition services into middle and secondary school years.
- describe the five major vocational training/placement options
- identify community resources related to transition services
- identify strategies for facilitating successful transition of students with disabilities from secondary school to post-secondary employment and independent living settings

Identify teaching strategies that enable SWD to acquire social skills necessary for success in post-secondary settings

- describe formal and informal assessments of vocational/career needs, skills, abilities and interests of students with disabilities
- devise methods to increase individual and family involvement in the transition process
- design a system that calls for daily student interaction with age-appropriate, non-disabled peers
- design an Individualized Transition Plan
- develop a lesson plan based upon goals and objectives from an Individualized Transition Plan

Describe current trends in issues in the delivery of transition services for SWD

- identify the role of technology in the implementation of transition services
- compare/contrast current paradigms in the provision of transition services
- evaluate current research findings related to transition services
- evaluate the roles of national and international advocacy groups

EDU 253 - Inclusive Secondary Instructional Practices

3 credit hours - Three hours weekly; one term.

Learn about the requirements of special education mandates regarding the accommodation and adaptation of instruction for secondary students with special needs. Examine individual needs through appropriate adaptations to curriculum, instruction, resources and management techniques for the inclusive classroom at the designated age/grade level. Prereq(s): *EDU 214*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

Define and describe the academic, behavioral and/ or social characteristics of students with special needs as identified in the laws that govern the provision of special education and Section 504 services.

Identify and explain the responsibilities of the classroom and special education teachers in developing and implementing individualized education programs (IEPs) for students with disabilities.

Design and utilize a process for collaboration among general and special educators, teacher assistants and related service personnel in inclusive environments.

Identify specific instructional strategies for teaching academic curriculum content to students with disabilities or those who struggle to learn.

Implement a strengths-based approach to assess student's abilities and needs.

Identify appropriate classroom accommodations for student success in inclusive instructional and social environments.

EDU 255 - Instructional Teamwork

3 credit hours - Three hours weekly; one term.

Examine the theories and models of collaboration appropriate for developing partnerships that meet the needs of diverse student populations. Identify collaboration of special services, models of consultation, teaming in the school setting, and conflict management styles. Develop effective interpersonal problem-solving and communication skills for the professional. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify effective collaboration and consultative practices used for the delivery of special services within school systems.

Identify common support services and available resources that provide assistance in the delivery of special services within school systems.

Explain the use and value of community, state, and federal resources in the delivery of special services within school systems.

Identify factors that promote effective communication and collaborations with individuals, parents, families, professionals, and community members in a culturally responsive special education programs.

Identify appropriate strategies that assist parents and families in dealing with typical concerns related to their children with special needs.

Develop individual education programs working in collaboration with others.

Identify strategies that foster respectful and beneficial relationships between families and professional.

Identify strategies that foster collaboration with regular classroom teachers and other school and community personnel for integrating individuals with special needs in various learning environments.

Distinguish between reactive and proactive approaches to problem solving.

Develop skills and identify strategies for facilitating interpersonal problem solving.

Describe principles of effective verbal and nonverbal communication.

Identify principles of conflict management and strategies for addressing conflict.

Discuss ethical issues that may arise in professional collaboration.

EDU 259 - Assistive Technology for Students with Special Needs

1 credit hour - Three hours weekly; five weeks.

Focuses on the identification of assistive technology, strategies and techniques for implementation in the educational environment for the purpose of accommodating school age individuals with disabilities. Provides techniques using assistive technology to enhance learning experiences for students with special needs.

Course Outcomes**Identify the types of assistive technology**

- Identify assistive technology for written expressions needs
- Identify assistive technology for oral communication needs
- Identify assistive technology for reading and listening needs
- Identify the individuals who require assistive technology

Develop an assistive technology technique

- Customize assistive technology technique to address IEPs.
- Select appropriate adaptive equipment to meet learning objectives.

EDU 261 - Methods of Teaching in Secondary Education

3 credit hours - Three hours weekly; one term.

Explore teaching methodology for effective instruction in secondary classrooms. Practice the development of learning objectives, selection of instructional techniques and use of resources appropriate for secondary content/curricula. Learn about basic principles of classroom management and apply theories of learning and teaching to the organization and presentation of secondary lessons.

Prereq(s): *A bachelor's degree and seeking teacher certification or permission from department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Identify and discuss the research, central concepts and tools of inquiry of the discipline.
2. Explain the theory and research base associated with different teaching models.
3. Recognize the cultural and historical aspects of the school and its community and how they influence on another.
4. Summarize the components of effective, inclusive teaching practices.
5. Connect instructional goals, standards, and outcomes with lesson planning.
6. Construct effective questions on different levels of thinking within the context of the discipline.
7. Develop lesson plans and unit plans that specify appropriate goals, activities, and assessment for selected discipline.
8. Employ effective classroom management techniques in a lesson.
9. Practice critical reflection in teaching.

EDU 262 - Literacy in the Content Area Part I

3 credit hours - Three hours weekly; one term.

Examine literacy in the present day with an emphasis on the literacy development of adolescent learners. Identify the interactive nature of the reading process in the content area and examine the use of effective instructional strategies for developing content reading literacy, skills, vocabulary and concepts. Design instruction that incorporates appropriate methods and materials for developing reading proficiency in the content area with a concentration on meeting the linguistic and cultural characteristics of all students. Prereq(s): *A Bachelor's degree and seeking teacher certification or permission of department chair.* Note: *EDU 262 is a Maryland State Department of Education approved reading course.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Define and describe developmental characteristics of adolescent and independent readers including constructing meaning and motivation in a high quality learning environment.
- Define and distinguish features of diversity including linguistic and cultural differences and state their effects on learning.
- Describe purposes and opportunities for using new literacies across content areas including identifying, selecting, and analyzing those multimodal sources.

Describe guiding principles and practices for content literacy assessment and use them to examine assessment types, tools, and purposes for content literacy assessment; examine factors of text complexity in relationship to instructional materials and context; and analyze student data to inform and evaluate instructional practice.

Plan and evaluate engaging instruction using professional and literacy standards.

Examine research, theoretical frameworks, and evidence-based multi-modal instructional practices to develop comprehension, academic and content-specific vocabulary, and writing.

Explore professional dispositions and ethical decision-making for contemporary educators.

Identify organizational structures and school-based resources for specific needs.

EDU 263 - Literacy in the Content Area Part II

3 credit hours - Three hours weekly; one term.

Examine literacy in the present day with an emphasis on the methods to develop literacy in adolescent learners. Examine, use, and evaluate a wide range of strategies and approaches to literacy instruction. Identify literacy tasks and assessment of those tasks to promote a better understanding of disciplinary content. Develop professional dispositions for collaboration and leadership in order to work effectively with students, families, schools, and communities of varied linguistic and cultural backgrounds. Prereq(s): *A bachelor's degree and seeking teacher certification or permission from department chair.* Note: *EDU 263 is a Maryland State Department of Education approved reading course.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Analyze and interpret characteristics of adolescent and independent readers in relationship to specific content areas.
- Interpret the processes of making meaning to critically analyze, synthesize, or transform information in specific content areas.
- Identify instructional techniques and student needs to motivate and engage all learners in inclusive content area literacy environments to support individual and collaborative interaction and to close achievement gaps.
- Evaluate and employ new literacies in discipline specific processes of inquiry for acquiring and developing content knowledge to engage in collaborative problem-solving and critical thinking.
- Select and/or develop and evaluate content-specific assessment tools as well as student performance based on multiple data points to evaluate and refine content area instructional practice
- Employ professional and literacy standards and evidence-based multi-modal instructional practices and curricula to plan, implement and evaluate lessons and comprehension within content areas, general academic and content specific vocabulary use, and writing within the content areas.
- Use current trends, initiatives, and educational reform efforts to engage in critical self-reflection for professional development as a content area literacy teacher.
- Investigate opportunities for collaboration with families/school/communities and develop leadership capacities.

EDU 264 - World Language Teaching Methods

3 credit hours - Three hours weekly, one term.

Examine current world language teaching methodologies and standards. Design teaching strategies to develop student communication skills and cultural awareness. Develop assessment strategies for the K-12 world language classroom. Prereq(s): *A bachelor's degree and seeking teacher certification or permission from department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Explain the World Readiness Standards and be able to incorporate them into daily lessons.
2. Incorporate cross-curricular connections (i.e. STEAM, other disciplines, digital learning, 21st century learning skills) through authentic resources.
3. Construct appropriate student outcomes based on the World Readiness Standards, proficiency targets, and teaching grammar in the context.
4. Apply current research findings related to secondary teaching methodology and best practices of World Language teachers.
5. Develop effective lesson plans that specify appropriate goals, activities, and assessments for World Language content according to the 6 Core Principles of language instruction.
6. Create formative and summative listening, speaking, reading, and writing assessments that effectively evaluate students' proficiency targets

7. Plan for the use of instructional strategies that promote the use of the target language while supporting learning objectives associated with culture and community.

EDU 269 - Inclusive Early Childhood and Elementary Instructional Practices

3 credit hours - Three hours weekly, one term.

Learn about the requirements of special education mandates regarding the accommodation and adaptation of instruction for early childhood and elementary age students with special needs. Examine individual needs through appropriate adaptations to curriculum, instruction, resources and management techniques for the inclusive classroom at the designated age/grade level. Prereq(s): *EDU 214*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

Define and describe the academic, behavioral and/ or social characteristics of students with special needs as identified in the laws that govern the provision of special education and Section 504 services.

Identify and explain the responsibilities of the classroom and special education teachers in developing and implementing individualized education programs (IEPs) for students with disabilities.

Design and utilize a process for collaboration among general and special educators, teacher assistants and related service personnel in inclusive environments.

Identify specific instructional strategies for teaching academic curriculum content to students with disabilities or those who struggle to learn.

Implement a strengths-based approach to assess student's abilities and needs.

Identify appropriate classroom accommodations for student success in inclusive instructional and social environments.

EDU 271 - Management Strategies in the Classroom

1 credit hour - Three hours weekly; five weeks.

Examines classroom management strategies for current teachers and paraprofessionals. Emphasizes integration of effective teaching techniques with appropriate classroom strategies. Examines classroom and lesson planning, principles of effective instruction and teacher-student relationships. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Identify elements of lesson designs in relation to clear learning goals.
2. Identify methods to establish clear behavioral goals in the classroom.
3. Describe and implement differentiated instruction techniques that give students responsibility for their own learning.
4. Discuss cooperative learning techniques that give students responsibility for their own learning.
5. Compare and contrast how students with different learning styles respond to various management techniques.
6. Identify classroom behavioral strategies appropriate for students.
7. Explain ways to establish positive teacher-student relationships.
8. Apply principles of effective classroom design for effective management instructional activities.

EDU 280-299 - Special Topics in Education

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Provides an intensive study of current or specialized themes, topics or methods in the field of education. Prereq(s): *Will vary depending on course offering.*

Electronic Engineering Technology

EET 109 - Circuit Assembly Techniques

2 credit hours - One lecture hour, two lab hours weekly; one term.

Learn various techniques and tools used to create electronic circuits to include soldering, schematic reading, crimping, and cable assembly. Interpret and create basic circuit schematics and diagrams. Lab fee \$40. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students should be able to:

- Identify common electronic components on a diagram.
- Build electronic circuits from schematic diagrams using appropriate tools and techniques.
- Perform basic soldering operations.
- Apply appropriate safety standards and protocols.

EET 130 - Introduction to Electronic Circuits

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Explore the fundamental theory of Direct Current (DC) and Alternating Current (AC) concepts by analyzing and troubleshooting resistive and reactive circuits. Through laboratory work, develop a basic knowledge of related electronic components, proper and safe use of electronic test equipment including power supplies, digital multimeters, function generators, and oscilloscopes. Lab fee \$25. Prereq(s): *Eligibility for MAT 137 or MAT 145 or MAT 151.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Design and build circuits.
- Analyze AC and DC circuits that include resistors, capacitors, inductors, diodes, and transformers.
- Build circuits from supplied schematics.
- Demonstrate proper use of test equipment for circuit analysis and troubleshooting.

EET 140 - Introduction to Telecommunications

3 credit hours - Three hours of lecture weekly; one term.

Introduces concepts, capabilities, systems and terminology of the telecommunications industry. Topics include telecommunications electronics, standards, technology review including broadband and other emerging technologies, convergence of communications, computers and the Internet, regulation and the economic and social impact of telecommunications. This course has an optional hands-on companion lab, EET 141 Telecommunications Wiring Laboratory, which you must sign up for separately.

EET 141 - Telecommunications Wiring Laboratory

1 credit hour - One hour of lecture and one hour of laboratory weekly; one term.

Take part in hands-on exercises in fiber optic and copper cabling installation. Learn to identify types of cabling, install jacks, panels and equipment racks. This course can be taken as an optional lab in conjunction with EET 140, or as a stand-alone course. Lab fee \$30.

EET 150 - Semiconductors and Linear Circuits

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Build upon AC/DC circuit theory content introduced in EET 130. Explore the characteristics and operation of semiconductor diodes, transistors, and RLC filters. Learn about linear integrated circuits including operational amplifiers, comparators and power supply regulators. Apply concepts and through hands-on laboratory work. Lab fee \$25. Prereq(s): *EET 130 or permission of academic chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain the function of diodes and their applications.
- Identify various types of transistors as they relate to amplifier circuits.

Build and analyze operational amplifier circuits.
Build and analyze RLC and operational amplifier filters.
Demonstrate the correct use of state-of-the-art electronic test equipment in performing diagnostics and measurements of circuit parameters to validate proper operational conditions, while following proper safety procedures.

EET 191 - Fiber Optics Installer 1

3 credit hours - Three hours of lecture and directed lab weekly; one term.

Learn about codes, standards, and regulatory requirements of the fiber optics industry. Understand the theory of operation of single and multimode fiber optic cables including protocols and measurements used in the telecommunications industry. Develop skills through laboratory exercises to practice in terminating, mechanical splicing, inspecting, and testing fiber optic cables.

Course Outcomes

At the conclusion of this course, a student would be able to:

- Explain how light propagates through optical fiber.
- Discuss modal and material dispersion.
- Explain the differences between intrinsic and extrinsic loss factors.
- Explain the different types of optical fiber and their uses.
- Test a fiber optic cable.
- Assemble a mechanical splice.
- Inspect a fiber endface.

EET 192 - Fiber Optics Installer 2

3 credit hours - Three hours of lecture and directed lab weekly; one term.

Learn about light theory and laser fundamentals including the content of the light spectrum generated by the various light sources. Learn about the equipment used to receive fiber optic signals and effect optical power has on performance. Develop skills through laboratory exercises to practice terminating, fusion splicing, inspecting, and testing of installed fiber optic systems. Prereq(s): *EET 191.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain fundamentals of laser operation.
- Discuss the electromagnetic spectrum and the portion used for fiber optics
- Discuss the theory and operation of LED transmitters.
- Explain the theory of photodiodes.
- Discuss the theory of operation lasers.
- Discuss the theory of operation of multiplexers.
- Complete a fusion splice.
- Analyze a fiber using an Optical Time Domain Reflectometer (OTDR).

EET 193 - Fiber Optics Installer 3

3 credit hours - Three hours of lecture and directed lab weekly; one term.

Learn the theory of operation and function of components found in installed fiber optic systems that include LEDs, photodiodes, and lasers. Learn about modulation and demodulation techniques, LAN architectures and protocols used in fiber optics transmission systems. Apply fiber optic systems knowledge to complete a design project in a real-world scenario. Prereq(s): *EET 192.*

Course Outcomes

At the conclusion of this course, a student would be able to:

1. Identify cable hardware, various installation methods, and their usage.
2. Identify safety and record keeping requirements required by electric codes.
3. Compare the performance of fiber optic, coaxial copper, and twisted pair systems.
4. Demonstrate the ability to conduct research and obtain the necessary documentation and technical literature to plan a simple optical fiber installation given a statement of work.

EET 231 - Digital-Electronic Circuits

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

A study of the principles and practices of digital electronic theory, components and circuits. Digital concepts involving number systems, Boolean algebra and logic gates are studied in conjunction with flip-flops, counters, encoders, multiplexers and digital-to-analog and analog-to-digital converters (ADC). State-of-the-art programmable logic devices are integrated throughout the course. The course culminates with the construction and functioning of computer busses with random access memory (RAM). Lab fee \$25.

Prereq(s): *EET 130 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Compare analog and digital systems
- Use the number systems common to digital systems
- Mathematically model real-world situations
- Construct combinational and sequential circuits
- Describe hardware descriptive languages
- Convert between analog and digital data
- Perform duties of a technician
- Prepare technical documentation

EET 240 - Fiber Optic Communications

3 credit hours - Three hours of lecture weekly; one term.

Introduces the basic concepts of fiber optic communications. Topics include fiber characteristics, light theory, connectors and splicing, wave division multiplexing, optoelectronics and practical applications in manufacturing and installation. Some topics in this course make use of basic math concepts.

EET 250 - Microprocessors and Microcontrollers

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Introduces microprocessor and microcontroller-based digital systems. The Intel 8085 microprocessor is used to develop concepts of basic computer architecture including the CPU, buses, memory and input/output. These concepts are then applied to the PIC microcontroller. Microcontrollers are small, single-chip computers often used in appliances and machines. Over five billion PIC devices are currently in use worldwide. Both hardware and software aspects are included so that you can learn how to design, analyze and program these systems to accomplish a specific task. Some previous familiarity with digital concepts would be helpful but not necessary. Lab fee \$50. Prereq(s): *EET 130 or permission of department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

EET 255 - Metrology and Calibration

4 credit hours - four hours combined lab and lecture weekly; one term

Learn the fundamentals of metrology, the study of measurements, as it relates to calibration. Explore the processes, equipment, math, and required reporting for proper industrial electronic equipment calibration. Demonstrate the proper use of calibration tools, processes, and reporting through hands-on labs. Lab fee \$30. Prereq(s): *EET 130 or permission of the engineering department chair.* Location(s) Typically Offered: Arnold Main Campus (MC)

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain the basic concepts of metrology.
- Analyze the loading effects of measurement devices.
- Use analog and digital signals for calibration.
- Use proper techniques to measure electrical properties of signals.
- Demonstrate proper use of test equipment for circuit diagnostics and measurement.

EET 260 - Electronic Communication Systems

4 credit hours - Four hours combined lecture and lab weekly; one term.

Learn the technologies and concepts used in current day electronic communication circuits and systems. Explore AM/FM modulation,

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digital data transmission, signal transmission and reception, wired and wireless communications, satellites, networking and their supporting infrastructures. Demonstrate comprehension through hands-on labs while utilizing various electronic troubleshooting and analytic tools. Lab fee \$25. Prereq(s): *EET 130*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students should be able to:

- Explain the basics of AM and FM wave modulation.
- Differentiate between wired and wireless communication concepts.
- Compare and contrast the properties of digital and analog waves.
- Explain the various infrastructures used in current day communication systems.
- Utilize electronic equipment to analyze basic wave forms.
- Build basic circuits to perform signal transmission and reception functions.

EET 265 - Electronics Technician Capstone

3 credit hours - Three hours of combined lecture/lab weekly; one term.

Design and build a project in an area of electricity, electronics or communications to reinforce and demonstrate practical lab and system troubleshooting skills. Work directly with a faculty mentor through the design, build and test phases. Present project at completion. Prepare for Certified Electronics Technician Associate (CETa) examination. Lab fee \$50. Prereq(s): *EET 130, EET 150, and EET 231*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Integrate basic electronic components into a working process
- Demonstrate proper use of electronic troubleshooting equipment
- Produce supporting electronic system documentation
- Apply appropriate OSHA safety guidelines

EET 280-299 - Special Topics in Electronic Engineering Technology

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Current or specialized topics in electronic engineering are covered including power systems, electrostatics, electromagnetic field theory, solar energy applications, laser technology, bioelectric system, modeling instrumentation, microwave circuits, artificial intelligence, electro-optic devices and solid-state devices. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$14-21. Prereq(s): *Will vary depending on course offering.*

Emergency Medical Services

EMS 101 - Introduction to Advanced EMS Practice

6 credit hours - 60 hours of lecture; 60 hours of lab; one term.

Integrate appropriate medical language, research, and knowledge of the Emergency Medical Services (EMS) systems with the safety and well-being of the paramedic. Synthesize medicolegal and ethical issues intended to improve the health of EMS personnel, patients, and their community. Integrate knowledge of anatomy and physiology with communication and basic life support skills into advanced practice patient assessment. Practice select procedures on each other during college lab. Lab fee \$200. Prereq(s): *Acceptance into the Paramedic program*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Integrate appropriate research, medical language, and knowledge of the Emergency Medical Services (EMS) systems with the safety and well-being of the paramedic.

Describe research, medicolegal, public health, basic concepts of health information management, computer usage, security and ethical issues utilized to meet professional standards and improve the health of EMS personnel, patients, and their community.

Utilize appropriate terminology and verbal and nonverbal skills to communicate with and/or advocate for diverse populations, in varied settings, while assuring personal, crew, scene, and patient safety.

Demonstrate methods of patient assessment to form a general impression of the pre-hospital patient and basic life support skills while creating and maintaining a safe environment.

Identify and explain the anatomy and physiology of body systems pertinent to paramedic practice.

Integrate scene assessment, patient assessment, and history-taking findings with knowledge of anatomy, physiology, pathophysiology, epidemiology, and psychosocial impact to form a field impression.

Demonstrate exemplary professional behavior in paramedic practice.

EMS 111 - Paramedic 1

7 credit hours - 54 hours of lecture, 82 hours of laboratory, and 44 hours of clinical; one term.

Analyze the duties and responsibilities of a paramedic in utilizing advanced life support concepts and practices of infection control, patient assessment, and pharmacological interventions. Explore and apply advanced medical management techniques for behavioral, toxicological, and substance abuse patients. Identify airway complications and demonstrate advanced airway management techniques. Practice select procedures on each other during college lab. Lab fee \$200. Clinical fee \$100. Prereq(s): *EMS 101 with a grade of C or better.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Integrate scene assessment, patient assessment, and history-taking findings with knowledge of anatomy, physiology, pathophysiology, epidemiology, and psychosocial impact to form a field impression.

Integrate comprehensive knowledge of pharmacology to formulate a treatment plan intended to mitigate and improve the overall health of a patient.

Integrate anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, prognosis, and management of toxidromes and poisonings.

Integrate anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, and prognosis to formulate a field impression and implement a comprehensive treatment/disposition plan for a patient with a behavioral condition.

Integrate anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, and prognosis into the assessment to develop and implement a treatment plan assuring a patent airway, adequate mechanical ventilation, and respiration for patients of all ages and conditions.

Utilize appropriate terminology, verbal, and nonverbal skills, to communicate with and/or advocate for diverse populations, in varied settings, while assuring personal, crew, scene, and patient safety.

Demonstrate exemplary professional behavior in paramedic practice.

EMS 121 - Paramedic 2

6 credit hours - 42 hours of lecture, 87 hours of laboratory, and 34 hours of clinical; one term.

Analyze the duties and responsibilities of a paramedic in utilizing advanced life support concepts and practices of infection control, patient assessment and pharmacological interventions. Explore and apply advanced medical management techniques for cardiac, respiratory, hematology, and trauma patients. Integrate skill acquisition into patient assessment and treatment/care plans for patients. Practice select procedures on each other during college lab. Lab fee \$200. Clinical fee \$100. Prereq(s): *EMS 111 with a grade of C or better.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring and summer

Course Outcomes

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, and prognosis leading to the assessment and management of traumatic injuries and/or complaints.

Integrate anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, and prognosis leading to the assessment and management of patients with cardiovascular and or pulmonary conditions and/or complaints.

Integrate anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, and prognosis leading to the assessment and management of patients with hematological conditions and/or complaints.
Integrate advanced life support airway management techniques into a critical patient care plan.
Utilize appropriate terminology and verbal and nonverbal skills to communicate with and/or advocate for diverse populations, in varied settings, while assuring personal, crew, scene, and patient safety.
Demonstrate exemplary professional behavior in paramedic practice.

EMS 131 - Paramedic 3

7 credit hours - 51 hours of lecture, 74 hours of laboratory and 68 hours of clinical; one term.

Analyze the duties and responsibilities of a paramedic in utilizing advanced life support concepts and practices of infection control, patient assessment and pharmacological interventions. Explore and apply advanced medical management techniques for cardiac, eyes, ears, nose, and throat (EENT), environmental, neurological, immunological, trauma, and special challenges patients. Integrate skill acquisition into patient assessment and treatment/care plans for patients. Practice select procedures on each other during college lab. Lab fee \$200. Clinical fee \$150. Prereq(s): *EMS 121 with a grade of C or better*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Integrate anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, and prognosis leading to the assessment and management of patients with cardiovascular conditions and/or complaints.

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, and prognosis to manage patients with neurological conditions and/or complaints.

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, and prognosis leading to the assessment and management of patients with disorders of the EENT and/or immunological conditions and/or complaints.

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, and prognosis leading to the assessment and management of patients with environmental-related conditions and/or complaints.

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, and prognosis leading to the assessment and management of traumatic injuries and/or complaints.

Utilize appropriate terminology, verbal, and nonverbal skills, to communicate with and/or advocate for diverse populations, in varied settings, while assuring personal, crew, scene, and patient safety.

Demonstrate exemplary professional behavior in paramedic practice.

EMS 141 - Paramedic 4

6 credit hours - 36 hours of lecture, 72 hours of laboratory, and 72 hours of clinical; one term.

Analyze the duties and responsibilities of a paramedic in utilizing advanced life support concepts and practices of infection control, patient assessment and pharmacological interventions. Explore and apply advanced medical management techniques for gastrointestinal, genitourinary, endocrine, gynecological, obstetrical, neonatal and trauma patients. Integrate skill acquisition into patient assessment and treatment/care plans for patients. Practice select procedures on each other during college lab. Lab fee \$200. Clinical fee \$150. Prereq(s): *EMS 131 with a grade of C or better*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and summer

Course Outcomes

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, and prognosis leading to the assessment and management of gastrointestinal and/or genitourinary conditions and/or complaints.

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, and prognosis leading to the assessment and management of traumatic injuries and/or complaints.

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, and prognosis leading to the assessment and management of patients in trauma arrest.

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, and prognosis leading to the assessment and management of obstetrical/ gynecological conditions and/or complaints.

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, and prognosis leading to the assessment and management of endocrine conditions and/or complaints.

Integrate assessment with anatomy, physiology, pathophysiology, epidemiology, psychosocial impact, presentations, and prognosis leading to the assessment and management of pediatric conditions and/or complaints in all developmental stages of their lifespan.

Utilize appropriate terminology and verbal and nonverbal skills to communicate with and/or advocate for diverse populations, in varied settings, while assuring personal, crew, scene, and patient safety.

Demonstrate exemplary professional behavior in paramedic practice.

EMS 251 - Paramedic 5

5 credit hours - 17 hours of lecture, 88 hours of laboratory, and 56 hours of clinical; one term.

Synthesize advanced pathological concepts, principles, and skill proficiency in caring for patients in a pre-hospital environment.

Utilize critical thinking skills through scenario-based assessment to formulate and institute a clear, concise treatment and disposition plan for various diseases and injuries. Integrate team leadership, crew resources management, culture of safety, patient advocacy and entry-level practice as a paramedic professional. Lab fee \$350. Clinical fee \$200. Prereq(s): *EMS 141 with a grade of C or better.*

Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Integrate advanced pre-hospital care with scene management, safety, and operations.

Integrate advanced pre-hospital care with scene management, safety, and operations involving weapons of mass destruction.

Obtain certifications to improve marketability for the entry-level paramedic.

Utilize appropriate terminology and verbal and nonverbal skills to communicate with and/or advocate for diverse populations, in varied settings, while assuring personal, crew, scene, and patient safety.

Demonstrate exemplary professional behavior in paramedic practice.

EMS 271 - Paramedic Capstone

7 credit hours - 10 hours of lecture, 58 hours of laboratory, and 264 hours of clinical; one term.

Utilize critical thinking skills, comprehensive history, and physical assessment within their patient interactions to formulate and institute an appropriate field impression and treatment plan for various diseases and traumatic injuries within a diverse community.

Identify factors affecting the health and health needs of a patient. Integrate team leadership, patient advocacy and entry-level practice as a paramedic professional. Demonstrate skill proficiency as an entry-level provider in scenario-based testing. Demonstrate effective communications in a manner that is culturally sensitive and intended to improve the patient's outcome. Practice selected procedures on each other during college lab. Lab fee \$300. Clinical fee \$350. Prereq(s): *EMS 251 with a grade of C or better.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Integrate advanced pre-hospital care with scene management, safety, and operations.

Obtain certifications to improve marketability for the entry-level paramedic.

Utilize appropriate terminology and verbal and nonverbal skills to communicate with and/or advocate for diverse populations, in varied settings, while assuring personal, crew, scene, and patient safety.

Demonstrate exemplary professional behavior in paramedic practice.

EMS 280-299 - Special Topics in Emergency Medical Services

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Permits qualified EMS students to meet updated certification and competency requirements or to complete necessary course work to be eligible to take state and national exams. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Prereq(s): *Permission of the Director.*

Emergency Medical Technician

EMT 100 - Uh Oh! What do I do?

1 credit hour - 1.5 hours weekly; one term

Explore the knowledge, skills, and abilities to render basic care to a sick or injured person until trained help arrives. Learn and demonstrate CPR/AED Family and Friends standards, Stop the Bleed training, and basic first aid with what you have in your house or outside. Create basic evacuation plans for your home or business. Learn personal safety in the event of local emergencies such as hurricanes, flooding, tornadoes, and earthquakes. Lab fee \$50. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- 1. Identify practices that assure personal wellness and safety.**
- 2. Activate the E911 system to facilitate definitive patient care.**
- 3. Create a basic evacuation plan for their home or workplace.**
- 4. Implement a basic care plan for medical and traumatic emergencies.**
- 5. Initiate cardiopulmonary resuscitation (CPR) to achieve quick entrance into the chain of survival including Automatic External Defibrillator (AED) use and CPR teamwork.**

EMT 104 - Emergency Medical Care, CPR & AED

3 credit hours - 31 hours of lecture, 23 hours of laboratory; one term.

This course meets the Wellness Requirement. Explore the knowledge, skills, and abilities for citizens, law enforcement officers, and other public safety officials to render basic care to a sick or injured person until the arrival of emergency medical technicians or paramedics. Focus on gaining access to patients, performing patient assessment, and managing life threatening situations. Recognize positive self-care for an emergency responder. Learn and demonstrate American Heart Association Basic CPR/AED standards for certification. Successful completion leads to eligibility to take the National Registry Emergency Medical Responder exam and the Maryland State exam for certification. There is a fee associated with each of these exams. Lab fee \$60. Note: *This course is not recommended for students seeking to continue in the EMT program. Students interested in preparing for emergency medical technician (EMT) level certification and for future certification as a paramedic should enroll in EMT 105. Credit is not given for both EMT 104 and EMT 105 or both EMT 104 and HEA 150.* Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Describe and perform the roles and responsibilities of the emergency medical responder;
- Identify practices that promote wellness, safety and prevention of conditions or events that would require an emergency medical responder's aid;
- Identify practices that assure responder wellness and safety;
- Manage patient presentations in medical and trauma incidents to alleviate the chance of secondary injury;
- Activate the E911 system to facilitate definitive patient care;
- Implement a basic patient care plan for medical and traumatic emergencies;

Identify patient situation and implement an appropriate and culturally sensitive communications model for varying emergency situations;

Initiate cardiopulmonary resuscitation (CPR) to achieve quick entrance into the chain of survival including Automatic external defibrillator use and high performance CPR teamwork.

EMT 105 - Emergency Medical Technician (EMT)

10 - 126 hours of lecture, 52 hours of laboratory, 12 hours of field experience; one term.

Develop the knowledge, skills and abilities for personnel who will deliver emergency medical care for the sick or injured of all ages in the pre-hospital setting. Focus on how to control the emergency scene, make patient assessments, and manage patients in the field or those in an ambulance. Recognize positive self-care for an emergency responder. Successful completion leads to American Heart Association CPR and AED certification as well as eligibility to take the National Registry Emergency Medical Technician (NREMT) exams for national certification. Students who successfully obtain their national certification are eligible for State of Maryland certification. There is a fee associated with the national exam. Affiliation with an Emergency Medical Service (EMS) jurisdiction is required for state certification. Lab fee \$200. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Note: *Credit is not given for both EMT 104 and EMT 105*. Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

1. Perform an appropriate assessment on a patient, for ages: newborn to geriatric, based on mechanism of injury or nature of illness.
2. Initiate basic interventions based on assessment findings intended to mitigate the emergency and provide symptom relief within the Emergency Medical Technician (EMT) scope of practice while providing access to definitive care.
3. Identify methods of transmission of pathogens and rationale for prevention strategies established by the Centers for Disease Control and Prevention (CDC).
4. Administer medications appropriately within the EMT scope of practice.
5. Calculate and administer the correct dose of medication based on either weight or age.
6. Perform all aspects of cardiopulmonary resuscitation and automatic external defibrillator use for all age groups.
7. Identify the clinical manifestations of shock and perform appropriate interventions.
8. Extricate an entrapped patient and apply appropriate immobilization devices.
9. Utilize Emergency Medical Services communication systems appropriately.
10. Communicate patient care information effectively, both verbally and in writing.
11. Perform scene safety procedures and communication skills necessary to interact as part of the pre-hospital chain of survival.
12. Apply the roles and responsibilities of the emergency medical technician.
13. Identify practices that assure responder wellness and safety.
14. Initiate cardiopulmonary resuscitation (CPR) to achieve quick entrance into the chain of survival including Automatic external defibrillator use and high performance CPR teamwork.

EMT 115 - Introduction to Paramedic

2 credit hours - 24 hours of lecture; 12 hours of laboratory; one two-week term

Integrate appropriate medical language and knowledge of the emergency medical services (EMS) systems with the safety and well-being of the paramedic. Synthesize medicolegal and ethical issues intended to improve the health of EMS personnel, patients and their community. Apply medical mathematical calculations for patient medication administration. Lab fee \$100. Prereq(s): *Admission into the Paramedic program*.

Course Outcomes

Communicate with internal and external customers of the emergency medical services with appropriate terminology and method based on the emergent situation to include written, verbal and nonverbal communication skills.

Meet standards of professionalism for the advanced life support provider.

Explore and integrate the resources available for maintaining personal health and wellness.

Explore mechanisms of public awareness and community intervention in regular day-to-day operations as well as disaster settings.

Apply math to appropriately care for a sick or injured patient in need of medication.

EMT 116 - Emergency Medical Technician 1

6 credit hours - 63 hours lecture, 54 hours laboratory; one term

Explore appropriate medical language and knowledge of the Emergency Medical Services (EMS) systems with focus on the safety and

well-being of the Emergency Medical Technician (EMT). Integrate medicolegal and ethical issues intended to improve the health of EMS personnel, patients, and their community. Apply basic knowledge of anatomy and physiology with communication, patient assessment, and basic life support skills into patient care plans for Airway, Breathing and Circulation. Successful course completion leads to American Heart Association CPR and AED Certification. Practice select procedures on each other during college lab. Lab fee \$125. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Note: *Credit is not given for both EMT 105 and EMT 116 and EMT 117*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Apply knowledge of the EMS system, safety/well-being of the EMT, public health epidemiology, medicolegal and ethical issues to the provision of emergency care.
2. Utilize appropriate terminology, verbal, and nonverbal skills, to communicate with and/or advocate for diverse populations, in varied settings, while assuring personal, crew, scene, and patient safety.
3. Apply knowledge of anatomy and physiology to patient assessment and management to assure a patent airway, adequate mechanical ventilation, respiration, and perfusion for patients of all ages.
4. Apply knowledge of operational roles, scene information and patient assessment findings to guide safe emergency management.
5. Perform patient assessment and care skills while applying pathophysiology to the management of shock, respiratory failure or arrest, cardiac failure or arrest, termination of resuscitative efforts and post resuscitation management.

EMT 117 - Emergency Medical Technician 2

6 credit hours - 47 hours lecture, 68 hours laboratory and 36 hours clinical; one term

Integrate appropriate medical language and knowledge of the Emergency Medical Services (EMS) systems with the safety and well-being of the Emergency Medical Technician (EMT). Integrate medicolegal and ethical decision making intended to improve the health of EMS personnel, patients, and their community. Utilize critical thinking skills, infection control practices, basic history, and physical assessment within their patient interactions to formulate and institute an appropriate field impression and treatment plan for various medical emergencies and traumatic injuries within a diverse community. Integrate patient advocacy and entry-level practice as an EMT professional. Demonstrate skill proficiency as an entry-level provider in scenario-based testing. Demonstrate effective communications in a manner that is culturally sensitive and intended to improve the patient's outcome. Practice selected procedures on each other during college lab. Lab fee \$150. Clinical fee \$100. Prereq(s): *EMT 116 with a grade of C or better*. Note: *Credit is not given for both EMT 105 and EMT 116 and EMT 117*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students should be able to:

1. Demonstrate methods of patient assessment to form a general impression of the pre-hospital patient and basic life support skills while creating and maintaining a safe environment.
2. Integrate scene assessment and control, patient assessment including basic knowledge of growth and development and history taking findings with basic knowledge of anatomy, physiology, pathophysiology, and psychosocial impact to formulate a field impression and implement a basic treatment and transportation plan for an acutely ill or injured patient.
3. Integrate basic knowledge of pharmacology to formulate a treatment plan intended to mitigate and improve the overall health of the patient.
4. Utilize appropriate terminology, and verbal and nonverbal skills, to communicate with and/or advocate for diverse populations, in varied settings while assuring personnel, crew, scene and patient safety.
5. Integrate personal and crew safety and well-being tenets into customer service in a nonemergent and emergency setting.

EMT 118 - Paramedic 1

13 credit hours - 120 hours of lecture, 90 hours of college lab, 90 hours of hospital clinical and field experience; one term.

Learn the duties and responsibilities of a paramedic in utilizing advanced life support concepts and practices of infection control, patient assessment, and pharmacological intervention. Explore and apply advanced medical management techniques for behavioral, respiratory and cardiovascular emergencies. Practice selected procedures on each other during college lab. Lab fee \$350; Clinical fee \$100. Prereq(s): *EMT 115 with a grade of C or better*. Note: *Mandatory attendance is required for all college lab, clinical and field rotations. Missed labs or rotations are made up at the student's expense or will result in failure of the course.*

Course Outcomes

Apply patient assessment findings to formulate a patient care plan.

Apply electrocardiogram readings and integrate their findings into a patient care plan.
Integrate advanced life support airway management techniques into a patient care plan.
Communicate with patients in varied settings with attention to personal safety, patient safety and condition.
Communicate with patients of all ages, religions, races and special considerations (neonates, obstetrics, special needs and geriatric).

EMT 119 - Paramedic 2

13 credit hours - 120 hours of lecture, 90 hours of college lab, 90 hours of hospital clinical and field experience; one term.

Apply pathophysiological processes and treatment modalities in the pre-hospital management of injuries and illnesses. Explore treatments specific to special populations including pediatric, geriatric and varying cultures and religious beliefs. Integrate pharmacological interventions and management for emergencies in medical and trauma conditions. College lab and clinical settings provide skill performance and mastery opportunities. Practice selected procedures on each other during college lab. Lab fee \$350; Clinical fee \$100. Prereq(s): *EMT 118 with a grade of C or better.* Note: *Mandatory attendance is required for all college lab, clinical and field rotations. Missed labs or rotations are made up at the student's expense or will result in failure in the course.*

Course Outcomes

Apply patient assessment findings to formulate a patient care plan.
Communicate with patients in varied settings with attention to personal safety, patient safety and condition.
Communicate with patients of all ages, religions, races and special considerations (neonates, obstetrics, special needs and geriatric).
Integrate anatomy and physiology, epidemiology, pathophysiology, psychosocial impact, patient presentations, prognosis and management of medical emergencies.
Integrate anatomy and physiology, epidemiology, pathophysiology, psychosocial impact, patient presentations, prognosis and management of traumatic emergencies.

EMT 215 - Paramedic 3

5 credit hours - 30 hours of lecture, 60 hours of college lab, 48 hours of field rotations; one term.

Synthesize advanced pathological concepts, principles, and skill mastery in caring for patients in a pre-hospital environment. Utilize critical thinking skills through scenario-based assessment to formulate and institute a clear and concise treatment and disposition plan for various diseases and injuries. Integrate team leadership, crew resource management techniques, patient advocacy, and entry-level practice as a paramedic professional. Practice selected procedures on each other during college lab. Lab fee \$250. Prereq(s): *EMT 119 with a grade of C or better or permission of the department chair.* Note: *Mandatory attendance is required for all college lab, clinical and field rotations. Missed labs or rotations are made up at the student's expense or will result in failure in the course.*

Course Outcomes

Perform basic and advanced patient assessment and create a treatment plan.
Monitor interventions as part of a treatment plan intended to mitigate the emergency, provide symptom relief and improve overall health of a patient in diverse populations.
Evaluate the effectiveness of the interventions and modify the patient treatment plan accordingly.
Report and document assessment findings and intervention.
Collect and report data to be used for epidemiological and research purposes.
Function successfully as a team leader on a routine single patient advanced life support emergency.
Ensure crew integrity and scene safety to include bystanders, patient and providers.
Demonstrate professional behavior to include but not limited to integrity, empathy, self-motivation, appearance/personal hygiene, self-confidence, communications, time management, teamwork/diplomacy, respect, patient advocacy and careful delivery of service.
Apply knowledge of post traumatic stress disorder and mechanisms used to help avoid burnout and improve personal wellness.

EMT 270 - Paramedic Capstone

7 credit hours - 8 hours of lecture, 60 hours college lab, 204 hours of capstone field experience; nine week course; one term.

Utilize critical thinking skills, comprehensive history and physical assessment within their patient interactions to formulate and institute an appropriate field impression and treatment plan for various diseases and injuries. Identify factors affecting the health and health needs of a patient. Integrate team leadership, patient advocacy and entry-level practice as a paramedic professional. Demonstrate skill mastery as an entry-level paramedic provider in scenario based testing. Demonstrate effective communications in a

manner that is culturally sensitive and intended to improve the patient outcome. Practice selected procedures on each other during college lab. Lab fee \$300; Clinical fee \$100. Prereq(s): *EMT 215 with a grade of C or better. Typically offered spring and summer terms.* Note: *Mandatory attendance is required for all college lab, clinical and field rotations. Missed labs or field rotations are made up at the student's expense or will result in failure in the course.*

Course Outcomes

Define the roles and responsibilities of a paramedic within an emergency medical services system.
Communicate effectively to handle emergency incidents in diverse populations and situations.
Effectively communicate in a manner that is culturally sensitive and intended to improve patient outcome.
Communicate effectively as team leader for proper extrication and treatment modalities.
Communicate verbally, non-verbally, and in writing in using medical terminology and appropriate documentation of field treatment plans for patients experiencing medical or traumatic incidents.
Ensure the safety of the rescuer and others during an emergency.
Identify text-based and electronic information for research and demonstrate an ability to integrate into a comprehensive field treatment plan.
Perform a comprehensive history and physical examination to identify factors affecting the health and health needs of a patient.
Formulate a field impression and treatment plan based on an analysis of comprehensive assessment findings, anatomy, physiology, pathophysiology, and epidemiology.
Relate assessment findings to underlying pathological and physiological changes in a patient's condition.
Integrate and synthesize the multiple determinants of health and clinical care.
Perform health screening and referrals.
Safely and effectively perform all psychomotor skills within the National EMS Scope of Practice Model and State scope of Practice at the paramedic level.
Use advanced life support monitoring equipment correctly and appropriately.
Function as the team leader of a routine, single patient advanced life support emergency call for a culturally diverse population across the age spectrum.
Identify causes/consequences of stress and integrate positive self-care into daily routine.
Solve medication calculations problems to determine correct dosage.
Function within the ethical and legal framework of the paramedic scope of practice.
Integrate pathophysiological and psychosocial principles to adapt the assessment and treatment plan for varied age group patients from diverse backgrounds, ethnic origins and religious beliefs.
Perform patient care procedures to meet National Paramedic Psychomotor Competency Portfolio requirements.
Evaluate role playing exercises.

EMT 280-299 - Special Topics: Emergency Medical Technology

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Permits qualified emergency medical technician students to meet updated certification and competency requirements or to complete necessary course work to be eligible to take state and national EMT exams. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-200. Prereq(s): *Permission of the EMT department chair.*

Engineering

EGR 120 - Introduction to Engineering Design

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

This course meets the Technology Requirement. Develop an understanding of the engineering profession and the engineering design process. Work individually and in teams to design, build and document projects. Includes engineering ethics, technical drawing, computer-aided drafting, spreadsheet tools for engineers, and an introduction to programming. Lab fee \$30. Prereq(s): *Eligibility for MAT 191 and ENG 101/ENG 101A or permission of engineering department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Describe the major branches of engineering.
2. Describe and perform the roles of the engineering team.
3. Describe the stages of the engineering process.
4. Create an engineering drawing using a computer-aided drafting program.
5. Create documents using word processing and spreadsheet software.
6. Plan, write, and execute computer programs to solve engineering problems.
7. Document and present the results of a technical project.

EGR 209 – Statics

3 credit hours - Three hours of lecture weekly; one term.

Study the equilibrium of particles and rigid bodies subject to general force systems in two and three dimensions. Learn about forces, moments, couples, equilibrium, trusses, frames and machines, friction, centroids, moments of inertia and internal forces. Use vector and scalar methods to solve problems. Prereq(s): *MAT 191*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

EGR 211 - Mechanics of Materials

3 credit hours - Three hours of lecture weekly; one term.

Study deformation of engineering materials under stress, including topics of shear, bending moment, torsion, combined stresses, stress analysis, statically indeterminate elements, virtual work and columns. Prereq(s): *MAT 192 and EGR 209 with a grade of C or better*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

EGR 222 – Dynamics

3 credit hours - Three hours of lecture weekly; one term.

Study kinematics and kinetics of particles and rigid bodies. Learn about forces, mass, acceleration, work, energy, impulse, momentum and impact. Use vector and scalar methods to solve problems. Prereq(s): *MAT 192, PHY 211 and EGR 209 with a grade of C or better*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

EGR 235 - Circuit Theory

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Learn about DC and AC networks including transient analysis, sinusoidal and non-sinusoidal waveforms, resonance, frequency response, and magnetically-coupled circuits. Apply methods of analysis including Kirchhoff's equations, Thevenin's and Norton's theorems, mesh and nodal analysis, source transformations, duality and superposition. Lab fee \$25. Prereq or Coreq: *MAT 212 and PHY 212 or permission of engineering department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Apply standard circuit analysis theorems to design and solve for current and voltage in DC circuits containing resistors, voltage and current sources.
- Apply standard circuit analysis theorems to design and solve for current and voltage in steady-state AC circuits containing resistors, capacitors, and inductors.
- Examine the transient response of first- and second-order RL, RC, and RLC circuits.
- Analyze the frequency response of circuits including low-pass, high-pass, and band-pass filters.
- Examine the characteristics and performance of ideal operational amplifiers in circuits.
- Model and simulate linear and non-linear circuit components.

EGR 241 - Systems and Signals

4 credit hours - Four hours of lecture/lab weekly; one term.

Apply numerical tools to systems and signals. Become familiar with aspects of numerical computation and appreciate the limitations. Master basic tools from linear algebra and calculus required for modeling real-world systems and signals. Implement digital filters for

use in signal processing applications. Become proficient in a computer numerical analysis application. Prereq(s): MAT 192.
Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

EGR 244 - Digital Logic Design

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Learn the mathematical basis for number systems used in Boolean algebra. Understand the properties and function of logic gates. Design combinatorial circuits using adders, subtractors, multiplexers, encoders, and decoders. Understand the properties of flip-flops. Design sequential circuits involving registers, counters, and memory. Use hardware description language (HDL) to program FPGAs. Lab fee \$25. Prereq(s): MAT 191 and either EGR 120 or CTP 150; or permission of engineering department chair.
Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Convert between number systems and codes used in digital systems.
- Use Boolean algebra to simplify and manipulate logic expressions.
- Identify the properties of logic gates.
- Analyze and design combinatorial circuits involving basic logic gates and more complex logic devices.
- Optimize digital circuits using various techniques including Karnaugh Maps and Quine-McCluskey Method.
- Analyze and design sequential circuits including latches and flip-flops.
- Program FPGAs using a high-level design language (HDL).
- Analyze and design a finite state machine.

EGR 250 - Intermediate Programming for Engineers

3 credit hours - Two hours of lecture and two hours of lab weekly; one term.

Learn intermediate principles of software development, including high level languages, object-oriented design, documentation, data structures, graphs and dynamic memory allocation. Develop programs primarily using the C programming language for various applications including analysis of digital and analog circuits, cryptography, bio-informatics, embedded software, game programming, image processing, and wireless sensor networks. Prereq(s): Eligibility for MAT 191 and completion of EGR 120 or permission of engineering department chair. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

EGR 262 - Engineering Materials

3 credit hours - Three hours of lecture weekly; one term.

A study of the properties and behavior of materials used in engineering applications. Covers structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials.

EGR 268 – Thermodynamics

3 credit hours - Three hours of lecture weekly; one term.

Formerly EGR 221 – Thermodynamics Study properties of gases and vapors. Solve problems applying the first and second laws of thermodynamics. Apply thermodynamic principles in the analysis of engineering systems such as engines, refrigeration and power cycles, and psychrometrics. Prereq(s): CHE 111, MAT 192 and PHY 212.

Course Outcomes

- Determine the thermodynamic properties for any ideal gas or pure substance.
- Analyze energy and mass transfers for steady and transient systems.
- Apply the first law of thermodynamics to closed systems and control volumes.
- Apply the second law of thermodynamics to analyze engineering systems.
- Perform thermodynamic analyses of engineering systems such as compressors, turbines, pumps, heat engine cycles, and refrigeration cycles, using energy, materials, and entropy relations.

EGR 280-299 - Special Topics in Engineering

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Current or specialized topics of interest to engineering students and engineers are covered. Possible topics are problem-solving software, computer-aided design, boundary element method of analysis, nondestructive evaluation, robotics, engineering ethics,

environment engineering, machine vision, composites tele-communications, automated systems for manufacturing and inventory management. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee varies.

Engineering Technologies

ENT 241 - Computer-Aided Drafting

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Learn to use AutoCAD in this introductory course. Acquire the skills and practice the processes to draw mechanical parts, architectural plans and engineering diagrams. Master basic commands, file maintenance, creation of 2D drawings, isometric views and plotting. Complete an application-specific project. Previous experience in drafting fundamentals is helpful. Note: *Credit is not given for both ENT 241 and ACH 245.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

ENT 242 - Advanced Computer-Aided Drafting and Design

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Gain proficiency in 2D concepts, assign data to blocks, create bills of materials and external references and digitize images. Advance from simple 3D objects through more complex shapes. Apply concepts by creating practical projects, such as a four cylinder engine assembly and a propeller. Create a final 3D project. Prereq(s): *ENT 241 or ACH 245 or permission of department chair.*

ENT 260 - Solid Modeling with SolidWorks

3 credit hours - Two hours of lecture and three hours of laboratory weekly; one term.

Learn to use SolidWorks, the next generation of 3D CAD software. SolidWorks is a fully editable solid-modeling CAD software used to produce 3D drawings of solid models. The course will start by first discussing 2D entities, then gradually creating 3D solid models and then finally integrating those models into an assembly. The student will also learn how to extract drawing views from 3D solid models. This course assumes a basic knowledge of orthographic drawings. Lab fee \$35. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

ENT 261 - Rapid Prototyping Techniques

4 credit hours - Four hours of lecture/lab weekly; one term.

Use the advanced features of three-dimensional solid-modeling applications. Apply CAD (computer-aided drafting) and CAM (computer-aided manufacturing) knowledge to industry applications. Model complex parts and create prototypes with current rapid prototype technologies. Apply finishing techniques to produce professional prototype models. Create a drafting portfolio. Lab fee \$50. Prereq(s): *ENT 260 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Create advanced assemblies in three-dimensional solid modeling computer applications.
2. Create sheet metal and weldment drawing models using industry standards.
3. Build prototypes using rapid prototyping technologies.
4. Create a drafting portfolio.

ENT 275 - Internship in Engineering Technology

3 credit hours - One hour seminar. 15 hours related work experience weekly; one term.

An opportunity to acquire practical experience in a work environment related to the field of engineering technology. Objectives set by student, student's employer and instructor. Prereq(s): *Permission of department chair or adviser.* Note: *Enrollment in internship courses requires that students hold an appropriate internship placement in order to receive course credit. Please consult with the Coordinator for Internships prior to registering unless otherwise specified by the department chair or director.*

ENT 280-299 - Special Topics in Engineering Technologies

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Current or specialized topics of interest to engineering technologies students. Possible topics are industrial animation, desktop

manufacturing, small boat design, computer-controlled machinery, solar power and CAD for specific technical disciplines. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$5-21.

English

ENG 099 - Support for Academic Writing and Research

2 equivalent hours - Two hours lecture weekly; one term.

Collaborate with the instructor to obtain extra support in developing critical writing, reading, and thinking strategies. Obtain extra support in specific writing skills at the sentence and essay levels with an emphasis on the research process. Develop and implement strategies and tools that promote academic success. Prereq(s): *A grade of C or better in ACL 040 or appropriate placement into ENG 101A or permission of the department chair.* Coreq(s): *ENG 101A.* Note: *Students who earn a grade of C or better in ENG 101A will earn a passing grade in ENG 099 and progress to ENG 102. Students who earn a grade of D in ENG 101A will earn a passing grade in ENG 099 and will be eligible to take ENG 101 or may choose to repeat both ENG 099 and ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

Practice analytical skills, including close reading, textual analysis, and rhetorical analysis, and investigate how cultural, social, and historical contexts shape texts.

Identify the characteristics of clear thesis statements, strong topic sentences, effective transitions, and focused and organized writing.

Identify appropriate modes of exposition and effective communication strategies for an academic audience.

Self-assess approach to writing and create a flexible writing process that uses prewriting, planning, drafting, and revising strategies.

Explain key steps of the research process by finding, selecting, and evaluating appropriate sources; identifying MLA conventions for incorporating and documenting primary and secondary source material; and using source material in an ethical way.

Identify Standard English grammar, punctuation, and mechanics; identify appropriate stylistic options according to audience and purpose; and create a self-inventory of common errors in grammar, punctuation, and mechanics.

Use non-cognitive and self-management skills to improve academic success.

Identify and use campus resources to encourage academic success.

ENG 101 - Academic Writing and Research 1

3 credit hours - Three hours lecture weekly; one term.

This course meets the English Composition General Education Requirement. Learn critical writing, reading, and thinking strategies. Write multiple essays, culminating in an instructor-guided research paper. Analyze a variety of texts and identify their cultural, historical, and social contexts. Develop foundational information literacy, academic research, and documentation skills. Prereq(s): *Appropriate placement into ENG 101.* Crosslisted: *Also offered as ENG 101H.* Note: *A grade of C or better is required to satisfy the general education requirement. Credit is not given for both ENG 101 and ENG 101H or ENG 101 and ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

Develop and demonstrate skills in close reading, textual analysis, and rhetorical analysis while identifying their cultural, social, and historical contexts.

Compose college-level writing projects for academic audiences.

Write a sequence of college-level analytical essays that incorporate a clear thesis statement, strong topic sentences, effective transitions, focused and developed paragraphs, logical organization, appropriate modes of exposition, and effective source material.

Demonstrate an understanding of the writing process by effectively using prewriting, planning, drafting, and revising strategies.

Demonstrate an understanding of the research process by finding, selecting, and evaluating appropriate sources.

Incorporate and document primary and secondary source material according to MLA conventions.
Understand plagiarism and implement strategies to avoid it.
Consistently use Standard English and other stylistic options appropriate for audience and purpose.
Learn to correct errors in grammar, punctuation, and mechanics.

ENG 101A - Academic Writing and Research 1

3 credit hours - Three hours lecture weekly; one term.

This course meets the English Composition General Education Requirement. Learn critical writing, reading, and thinking strategies. Write multiple essays, culminating in an instructor-guided research paper. Analyze a variety of texts and identify their cultural, historical, and social contexts. Develop foundational information literacy, academic research, and documentation skills. Prereq(s): *A grade of C or better in ACL 040 or appropriate placement into ENG 101A.* Coreq(s): *ENG 099.* Note: *A grade of C or better is required to satisfy the general education requirement. Credit is not given for both ENG 101A and ENG 101 or ENG 101A and ENG 101H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

Develop and demonstrate skills in close reading, textual analysis, and rhetorical analysis while identifying their cultural, social, and historical contexts.

Compose college-level writing projects for academic audiences.

Write a sequence of college-level analytical essays that incorporate a clear thesis statement, strong topic sentences, effective transitions, focused and developed paragraphs, logical organization, appropriate modes of exposition, and effective source material.

Demonstrate an understanding of the writing process by effectively using prewriting, planning, drafting, and revising strategies.

Demonstrate an understanding of the research process by finding, selecting, and evaluating appropriate sources.

Incorporate and document primary and secondary source material according to MLA conventions.

Understand plagiarism and implement strategies to avoid it.

Consistently use Standard English and other stylistic options appropriate for audience and purpose.

Learn to correct errors in grammar, punctuation, and mechanics.

ENG 101H - Academic Writing and Research 1 – Honors

3 credit hours - Three hours lecture weekly; one term.

This is an honors course. Learn critical writing, reading, and thinking strategies. Write multiple essays, culminating in an instructor-guided research paper. Analyze a variety of texts and identify their cultural, historical, and social contexts. Develop foundational information literacy, academic research, and documentation skills. Prereq(s): *Eligibility for Honors courses and appropriate placement into ENG 101.* Crosslisted: *Also offered as ENG 101.* Note: *A grade of C or better is required to satisfy the general education requirement. Complete and present an honors capstone research project that extends beyond the classroom. Credit is not given for both ENG 101H and ENG 101 or ENG 101H and ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

Develop and demonstrate skills in close reading, textual analysis, and rhetorical analysis while identifying their cultural, social, and historical contexts.

Compose college-level writing projects for academic audiences.

Write a sequence of college-level analytical essays that incorporate a clear thesis statement, strong topic sentences, effective transitions, focused and developed paragraphs, logical organization, appropriate modes of exposition, and effective source material.

Demonstrate an understanding of the writing process by effectively using prewriting, planning, drafting, and revising strategies.

Demonstrate an understanding of the research process by finding, selecting, and evaluating appropriate sources.

Incorporate and document primary and secondary source material according to MLA conventions.

Understand plagiarism and implement strategies to avoid it.

Consistently use Standard English and other stylistic options appropriate for audience and purpose.

Learn to correct errors in grammar, punctuation, and mechanics.

ENG 102 - Academic Writing and Research 2

3 credit hours - Three hours lecture weekly; one term.

This course meets the English Composition General Education Requirement. Develop advanced critical writing, reading, and thinking skills. Compose analytical and argumentative essays, culminating in the production of an independent, extensive, multiple-source, fully documented research paper. Analyze a variety of texts through close reading and explore their cultural, historical, and social contexts. Learn advanced research techniques, including formulation of research questions, identification of multiple audiences, analysis of rhetorical situations, and ethical research tactics. Prereq(s): *Successful completion of ENG 101 or ENG 101H or ENG 101A with a grade of C or better.* Crosslisted: *Also offered as ENG 102H; credit is not given for both ENG 102 and ENG 102H.* Note: *A grade of C or better is required to satisfy the general education requirement.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify rhetorical relationships between assertion and evidence, patterns of organization, and genre conventions, paying special attention to how these features function for different audiences and situations;
- Explain how texts are shaped by particular cultural, historical, and social contexts;
- Apply recursive writing process for academic writing to produce a sequence of college-level argumentative and persuasive research essays;
- Apply using prewriting, planning, drafting, and revising strategies in college-level writing;
- Draft and revise a thesis that originates in student-developed research questions that respond to an ongoing academic or professional discussion;
- Write for a variety of rhetorical situations and contexts calling for purposeful shifts in voice, tone, level of formality, organization, and/or structure;
- Use strategies such as interpretation, synthesis, response, and critique to compose texts that integrate the writer's ideas with those from appropriate sources;
- Locate, evaluate, and incorporate primary and secondary research materials with specific audience and purpose in mind;
- Give and act on productive feedback to works in progress through engagement in the collaborative and social aspects of writing;
- Recognize and implement strategies to avoid plagiarism and apply ethical approaches to research and composition.

ENG 102H - Academic Writing and Research 2 Honors

3 credit hours - Three hour of lecture weekly; one term.

This is an honors course. Develop advanced critical writing, reading, and thinking skills. Compose analytical and argumentative essays, culminating in the production of an independent, extensive, multiple-source, fully documented, research paper. Analyze a variety of texts through close reading and explore their cultural, historical, and social contexts. Learn advanced research techniques, including formulation of research questions, identification of multiple audiences, analysis of rhetorical situations, and ethical research tactics. Prereq(s): *Eligibility for Honors courses and successful completion of ENG 101 or ENG 101H or ENG 101A with a grade of C or better.* Crosslisted: *Also offered as ENG 102; credit is not given for both ENG 102H and ENG 102.* Note: *A grade of C or better is required to satisfy the general education requirement. Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Identify rhetorical relationships between assertion and evidence, patterns of organization, and genre conventions, paying special attention to how these features function for different audiences and situations;
- Explain how texts are shaped by particular cultural, historical, and social contexts;
- Apply recursive writing process for academic writing to produce a sequence of college-level argumentative and persuasive research essays;
- Apply using prewriting, planning, drafting, and revising strategies in college-level writing;
- Draft and revise a thesis that originates in student-developed "research questions" that respond to an ongoing academic or professional discussion;
- Write for a variety of rhetorical situations and contexts calling for purposeful shifts in voice, tone, level of formality, organization, and/or structure;
- Use strategies such as interpretation, synthesis, response, and critique to compose texts that integrate the writer's ideas with those from appropriate sources;

Locate, evaluate, and incorporate primary and secondary research materials with specific audience and purpose in mind;
Give and act on productive feedback to works in progress through engagement in the collaborative and social aspects of writing;
Recognize and implement strategies to avoid plagiarism and apply ethical approaches to research and composition.

ENG 160 - The Art and Science of Grammar

3 credit hours - Three hours of lecture weekly; one term.

Learn the grammar of the English language at an advanced level. Focus on the definitions, functions and relationships among its words. Analyze the types, styles and logic of grammatically correct sentences and use this knowledge and these skills to assess effective written communication. Assess punctuation's impact on communication. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Location(s) Typically Offered: Arnold Main Campus (MC) **Term(s) Typically Offered:** Spring

Course Outcomes

Upon successful completion of this course, students should be able to:

- Use Standard English to develop writing and reading skills.
- Identify and compare types of grammar.
- Recognize, identify, and correctly use different types of phrases, clauses, and modifiers.
- Recognize, identify, define, compare/contrast and write different types of sentences.
- Choose words carefully and consciously to create clear and effective sentences.
- Choose and arrange stylistic elements for artistic purposes.
- Use appropriate and standard use of punctuation and graphics.
- Analyze the rhetorical effect of grammatical choices.

ENG 161 - Introduction to Linguistics

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Explore the nature of language and the development of the English language. Learn about the evolution, operation and acquisition of human language and its relation to animal communication. Investigate social and cultural influences on language and the development of dialects. Analyze the relationship between language, thinking and writing, and trace the development of various writing systems. No knowledge of a foreign language is necessary.

Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) **Term(s) Typically Offered:** Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain in writing and discussion the design features of human language;
- Discover in writing and discussion myths that many people hold about language and, in doing so, confront their own misconceptions about language;
- Demonstrate in writing and discussion knowledge of the basic subfields of linguistics: phonetics/phonology, morphology, syntax, semantics, and pragmatics;
- Explain in writing and discussion how language relates to the society or culture that uses it and to power, prestige, and social status;
- Analyze in writing and discussion the role that language plays in defining gender, race, class, sexuality, age, and ability;
- Explain in writing and discussion how languages evolve and how, in particular, the English language has developed throughout history;
- Describe in writing and discussion how children acquire language;
- Explain in writing and discussion the relationship between language, the brain, and thinking.

ENG 200 - Introduction to Creative Writing

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn the basic craft elements of writing poetry and short fiction. Complete weekly exercises designed to teach the fundamental aspects of reading and writing poetry and fiction. Develop collections of poems and short stories. Practice the workshop method to discuss student writing, foster critical thinking and develop individual styles. Prereq(s): *ENG 101/ENG 101A or permission of the department.* **Location(s) Typically Offered:** Arnold Main Campus (MC) and Online (OL) **Term(s) Typically Offered:** Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze work written by established and contemporary prose writers and poets and recognize themes and techniques.
- Write competent and original prose and poetry.
- Use a range of literary terms and techniques to discuss their own writing and the writing of their peers.
- Practice disciplined writing habits such as journaling, keeping a daily schedule, drafting, editing, and revising.
- Demonstrate a constructively critical approach to evaluating their own work and the work of their peers.
- Revise their prose and poems by integrating critique from instructor and peers into their revision process.
- Articulate how they are using critique to raise their work to a higher standard
- Evaluate working writers who are reading and staging events within the college and/or the larger community.
- Prepare a submission for literary journals and publications.

ENG 201 - Creative Writing: Beginning Fiction Workshop|

3 credit hours - Three hours weekly; one term.

Build on the craft elements of writing fiction introduced in ENG 200. Complete weekly exercises designed to teach important aspects of structure, tone, point-of-view, imagery, metaphor, character development, plot and voice. Develop a portfolio of short stories and/or chapters for a novel. Practice the workshop method to discuss student writing, foster critical thinking and develop individual styles.

Prereq(s): *ENG 200 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL)

Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze work written by established and contemporary short story and fiction writers and recognize themes and techniques.
- Write competent and original fiction.
- Use a range of literary terms and techniques to discuss their own stories and the stories of their peers.
- Critique the stories of their peers in a workshop environment.
- Revise their stories by integrating critique from instructor and peers into their revision process.
- Articulate how they are using critique to raise their work to a higher standard.
- Prepare a submission for literary journals and publications.

ENG 202 - Creative Writing: Beginning Poetry Workshop

3 credit hours - Three hours weekly; one term.

Build on the craft elements of writing poetry introduced in ENG 200. Complete weekly exercises designed to teach important aspects of imagery, metaphor, rhythm, tone and form. Develop individual poetry portfolios. Practice the workshop method to discuss student writing, foster critical thinking and develop individual styles. Prereq(s): *ENG 200 or permission of department chair.* Location(s)

Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze work written by established and contemporary poets and recognize themes and techniques.
- Write competent and original poetry.
- Use a range of literary terms and techniques to discuss their own poetry and the poetry of their peers.
- Critique the poetry of their peers in a workshop environment.
- Revise their poems by integrating critique from instructor and peers into their revision process.
- Articulate how they are using critique to raise their work to a higher standard.
- Prepare a submission for literary journals and publications.

ENG 203 - Creative Writing: Writing for the Stage and Screen Workshop

3 credit hours - Three hours weekly; one term.

Analyze successful stage plays and screenplays with an eye toward original composition. Discover how to tell gripping stories and learn the fundamental principles and techniques of shaping those stories for the stage and for the screen. Explore ways of building compelling characters, writing effective and memorable dialogue, and structuring dramatic and cinematic acts and scenes. Share writing during workshop sessions in order to hone drafts, develop critical thinking skills and refine individual style. Prereq(s): *ART*

180 or ENG 200 or THA 125 or permission of the department chair. Crosslisted: Also offered as ART 218; credit is not given for both ENG 203 and ART 218. Location(s) Typically Offered: Arnold (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze work written by established and contemporary playwrights and screenwriters and recognize themes and techniques.
- Write competent and original plays and screenplays.
- Use a range of stage terms and techniques to discuss their own plays and the plays of their peers.
- Use a range of film and screenplay terms and techniques to discuss their own screenplays and the screenplays of their peers.
- Critique the plays and screenplays of their peers in a workshop environment.
- Revise their plays and screenplays by integrating critique from instructor and peers into their revision process.
- Articulate how they are using critique to raise their work to a higher standard.
- Describe the production process of staging a play and/or filming a screenplay.

ENG 204 - Creative Writing: Beginning Creative Nonfiction Workshop

3 credit hours - Three hours weekly; one term.

Focus on crafting nonfiction essays that incorporate fiction techniques. Complete a series of writing and reading exercises designed to teach students further aspects of the craft of literary essay writing such as voice, scene and summary, segmented essays, authenticity, imagery and style. Develop a collection of essays including but not limited to personal essay, memoir, portrait, essay of place and literary journalism. The workshop method will be used to discuss student writing and foster critical thinking. Prereq(s): ENG 200 or permission of department chair. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze work written by established and contemporary creative nonfiction writers and recognize themes and techniques.
- Write competent and original creative nonfiction.
- Use a range of literary terms and techniques to discuss their own creative nonfiction and the creative nonfiction of their peers.
- Critique the creative nonfiction of their peers in a workshop environment.
- Revise their creative nonfiction by integrating critique from instructor and peers into their revision process.
- Articulate how they are using critique to raise their work to a higher standard.
- Prepare a submission for literary journals and publications.

ENG 205 - Creative Writing: Portfolio Development

2 credit hours - Two lecture hours weekly; one term.

Prepare a representative portfolio, with the guidance of a faculty mentor, of the work completed in creative writing classes. This course is intended only for students completing the AA in Fine Arts -Creative Writing Option program. This course should be taken during the student's final semester in the program. Prereq(s): ENG 200 and two of the following: ENG 201, ENG 202, ENG 203, ENG 204 or permission of the department chair. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Evaluate the quality and effectiveness of their own creative work.
- Apply critical principles to select and organize a portfolio of their best work.
- Revise their selected work by integrating critique from instructor into their revision process.
- Articulate common themes and techniques in their work.
- Contextualize their existing work into their continuing development as a writer.

ENG 207 - Writing for Professionals

3 credit hours - Three hours weekly; one term.

Study and practice problem-solving strategies for professional writing - including technical writing - using casebook studies and student writing projects. Analyze goals, purposes, audiences, and resources in professional written work. Develop strategies for

planning, drafting and revising professional writing. Prereq(s): *ENG 101/ENG 101A or permission of the department*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

ENG 211 - World Literature 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Explore great works of literature from the earliest written records through the 17th century. Read selections from ancient Mesopotamian, Biblical, Islamic, Asian, classical Greek and Roman and medieval and renaissance European literature. Prereq(s): *ENG 101/ENG 101A or permission of the department*. Crosslisted: *Also offered as ENG 211H; credit is not given for both ENG 211 and ENG 211H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Analyze orally and in writing representative texts of world literature from earliest records through the 17th century;
- Discuss and write about common themes in representative texts of this period;
- Discuss and write about distinct national and cultural values and perspectives reflected in representative texts of this period ;
- Discuss and write about the relationship of representative texts of this period to their intellectual, social, and cultural backgrounds.
- Discuss and write about changes and developments in literary forms and conventions as reflected in representative texts of this period.

ENG 211H - World Literature 1 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Explore great works of literature from the earliest written records through the 17th century. Read selections from ancient Mesopotamian, Biblical, Islamic, Asian, classical Greek and Roman and medieval and renaissance European literature. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department*. Crosslisted: *Also offered as ENG 211; credit is not given for both ENG 211H and ENG 211*. Note: *Complete and present an honors capstone research project that extends beyond the classroom*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Analyze orally and in writing representative texts of world literature from earliest records through the 17th century;
- Discuss and write about common themes in representative texts of this period;
- Discuss and write about distinct national and cultural values and perspectives reflected in representative texts of this period ;
- Discuss and write about the relationship of representative texts of this period to their intellectual, social, and cultural backgrounds;
- Discuss and write about changes and developments in literary forms and conventions as reflected in representative texts of this period.

ENG 212 - World Literature 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study literature from Europe, the Americas, Africa, and Asia, from the 18th century to the present. Read selections from works written in the Neoclassical, Romantic, and Realistic periods as well as representative works of modern literature. Prereq(s): *ENG 101/ ENG 101A or permission of the department chair*. *ENG 211 or ENG 211H is not a prerequisite*. Crosslisted: *Also offered as ENG 212H; credit is not given for both ENG 212 and ENG 212H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Analyze orally and in writing representative texts of world literature from the 17th century to modern times;
- Discuss and write about common themes in representative texts of this period;
- Discuss and write about distinct national and cultural values and perspectives reflected in representative texts of this period;

Discuss and write about the relationship of representative texts of this period to their intellectual, social, and cultural backgrounds;

Discuss and write about changes and developments in literary forms and conventions as reflected in representative texts of this period.

ENG 212H - World Literature 2 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Study literature from Europe, the Americas, Africa and Asia, from the 18th century to the present. Read selections from works written in the Neoclassical, Romantic, and Realistic periods as well as representative works of modern literature. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department. ENG 211 or ENG 211H is not a prerequisite.* Crosslisted: *Also offered as ENG 212; credit is not given for both ENG 212H and ENG 212.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Analyze orally and in writing representative texts of world literature from the 17th century to modern times;

Discuss and write about common themes in representative texts of this period;

Discuss and write about distinct national and cultural values and perspectives reflected in representative texts of this period;

Discuss and write about the relationship of representative texts of this period to their intellectual, social, and cultural backgrounds;

Discuss and write about changes and developments in literary forms and conventions as reflected in representative texts of this period.

ENG 213 - British Literature 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Survey British literature from the Anglo-Saxon period through the 18th century. Read selections from British writers of poetry, drama, and prose of the Anglo-Saxon, Medieval, Renaissance, Restoration and Neoclassical periods. Prereq(s): *ENG 101/ENG 101A or permission of the department.* Crosslisted: *Also offered as ENG 213H; credit is not given for both ENG 213 and ENG 213H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

Analyze and evaluate selected texts of British literature from the Anglo-Saxon period through the 18th century.

Explain the relationship of the literature to its intellectual, social and cultural backgrounds.

Identify and trace changes in literary form, conventions, and themes during the period.

Write analytically about a variety of texts.

Practice close textual analysis that demonstrates development of critical thinking skills.

ENG 213H - British Literature 1 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Survey British literature from the Anglo-Saxon period through the 18th century. Read selections from British writers of poetry, drama, and prose of the Anglo-Saxon, Medieval, Renaissance, Restoration and Neoclassical periods. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department.* Crosslisted: *Also offered as ENG 213; credit is not given for both ENG 213H and ENG 213.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

Analyze and evaluate selected texts of British literature from the Anglo-Saxon period through the 18th century.

Explain the relationship of the literature to its intellectual, social and cultural backgrounds.
Identify and trace changes in literary form, conventions, and themes during the period.
Write analytically about a variety of texts.
Practice close textual analysis that demonstrates development of critical thinking skills.

ENG 214 - British Literature 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Read British poetry and prose (fiction and nonfiction) composed since the end of the 18th century. Study significant literary, social, and historical influences on writers of this period, such as romanticism, industrialism, the crisis in religion, and the aftermath of the world wars of the twentieth century. Prereq(s): *ENG 101/ENG 101A or permission of the department. ENG 213 or ENG 213H is not a prerequisite.* Crosslisted: *Also offered as ENG 214H; credit is not given for both ENG 214 and ENG 214H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Analyze and evaluate selected texts of British literature from the eighteenth century through the present.
Explain the relationship of the literature to its intellectual, social and cultural backgrounds;
Identify and trace changes in literary form, conventions, and themes during the period;
Write analytically about a variety of texts;
Practice close textual analysis that demonstrates development of critical thinking skills.

ENG 214H - British Literature 2 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Read British poetry and prose (fiction and nonfiction) composed since the end of the 18th century. Study significant literary, social, and historical influences on writers of this period, such as romanticism, industrialism, the crisis in religion, and the aftermath of the world wars of the twentieth century. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department. ENG 213 or ENG 213H is not a prerequisite.* Crosslisted: *Also offered as ENG 214; credit is not given for both ENG 214 and ENG 214H.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Analyze and evaluate selected texts of British literature from the eighteenth century through the present.
Explain the relationship of the literature to its intellectual, social and cultural backgrounds;
Identify and trace changes in literary form, conventions, and themes during the period;
Write analytically about a variety of texts;
Practice close textual analysis that demonstrates development of critical thinking skills.

ENG 215 - Early American Literature: Colonial to 1865

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Survey the literature of the United States from its colonial beginnings to the Civil War. Study major influences - literary, historical and social - reflected in the writing of this period. Prereq(s): *ENG 101/ENG 101A or permission of the department chair.* Crosslisted: *Also offered as ENG 215H; credit is not given for both ENG 215 and ENG 215H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

Analyze and evaluate selected works of American literature from its beginnings through the Civil War;
Trace and compare the racial, ethnic, gender, and class differences which constitute the American experience and which are reflected in its literature;
Explain the relationship of the literature to its intellectual, social, and cultural backgrounds;
Identify and trace changes in literary forms, themes, and conventions during the period;
Write analytically about a variety of texts;
Practice close textual analysis that demonstrates development of critical thinking skills.

ENG 215H - Early American Literature: Colonial to 1865 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Survey the literature of the United States from its colonial beginnings to the Civil War. Study major influences - literary, historical and social - reflected in the writing of this period. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair.* Crosslisted: *Also offered as ENG 215; credit is not given for both ENG 215H and ENG 215.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

Analyze and evaluate selected works of American literature from its beginnings through the Civil War;
Trace and compare the racial, ethnic, gender, and class differences which constitute the American experience and which are reflected in its literature;
Explain the relationship of the literature to its intellectual, social, and cultural backgrounds;
Identify and trace changes in literary forms, themes, and conventions during the period;
Write analytically about a variety of texts;
Practice close textual analysis that demonstrates development of critical thinking skills.

ENG 216 - American Literature, 1865-1945: Realism to Modernism

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Survey the literature of the United States from the Civil War to the end of World War II. Explore readings reflecting major currents - literary, historical and social - in the culture of the United States. Prereq(s): *ENG 101/ENG 101A or permission of the department chair.* Crosslisted: *Also offered as ENG 216H; credit is not given for both ENG 216 and ENG 216H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

Describe the major trends, periods, and developments of American Literature from the Civil War to 1945;
Explain the racial, ethnic, gender, and class differences which constitute the American experience and are reflected in its literature;
Analyze and evaluate important works of the period;
Explain the relationships of the literature to its intellectual, social, and cultural backgrounds;
Identify and trace changes in literary forms, themes, and conventions during the period;
Write analytically about different forms of literature;
Practice close textual analysis that demonstrates the application of critical reading skills.

ENG 216H - American Literature, 1865 - 1945: Realism to Modernism – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Survey the literature of the United States from the Civil War to the end of World War II. Explore readings reflecting major currents - literary, historical, and social - in the culture of the United States. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair.* Crosslisted: *Also offered as ENG 216; credit is not given for both ENG 216H and ENG 216.* Note: *Complete and*

present an honors capstone research project that extends beyond the classroom. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the major trends, periods, and developments of American Literature from the Civil War to 1945;
- Explain the racial, ethnic, gender, and class differences which constitute the American experience and are reflected in its literature;
- Analyze and evaluate important works of the period;
- Explain the relationships of the literature to its intellectual, social, and cultural backgrounds;
- Identify and trace changes in literary forms, themes, and conventions during the period;
- Write analytically about different forms of literature;
- Practice close textual analysis that demonstrates the application of critical reading skills.

ENG 217 - Contemporary American Literature: 1945-present

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Survey the literature of the United States written since 1945. Explore readings reflecting major currents - literary, historical and social - in the culture of the United States. Prereq(s): *ENG 101/ENG 101A or permission of the department chair.* Crosslisted: *Also offered as ENG 217H; credit is not given for both ENG 217 and ENG 217H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the major trends, periods, and developments of American Literature from 1945 to the present;
- Explain the racial, ethnic, gender, and class differences which constitute the American experience and are reflected in its literature;
- Analyze and evaluate important works of the period;
- Explain the relationships of the literature to its intellectual, social, and cultural backgrounds;
- Identify and trace changes in literary forms, themes, and conventions during the period;
- Write analytically about different forms of literature;
- Practice close textual analysis that demonstrates the application of critical reading skills.

ENG 217H - Contemporary American Literature: 1945 - present – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Survey the literature of the United States written since 1945. Explore readings reflecting major currents - literary, historical and social - in the culture of the United States. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair.* Crosslisted: *Also offered as ENG 217; credit is not given for both ENG 217H and ENG 217.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the major trends, periods, and developments of American Literature from 1945 to the present;
- Explain the racial, ethnic, gender, and class differences which constitute the American experience and are reflected in its literature;
- Analyze and evaluate important works of the period;
- Explain the relationships of the literature to its intellectual, social, and cultural backgrounds;
- Identify and trace changes in literary forms, themes, and conventions during the period;
- Write analytically about different forms of literature;

Practice close textual analysis that demonstrates the application of critical reading skills.

ENG 218 - Introduction to U.S. Latinx Literature

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Explore U.S. Latinx literature and cultural production. Engage in close reading of works by Mexican American, Puerto Rican, Dominican American, Cuban American, and U.S. Central American writers. Analyze works of poetry, fiction, non-fiction, and other genres in their literary, historical, and political contexts. Prereq(s): *ENG 101/ENG 101A or permission of the department chair.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify and analyze literary forms and themes in U.S. Latinx literature.
- Identify and analyze the specific social, historic, and cultural contexts of U.S. Latinx literature.
- Identify and analyze the intersections of race, ethnicity, gender, sexuality, class, and nationality in works of U.S. Latinx literature.
- Write analytical essays about U.S. Latinx literature.
- Practice close textual analysis through the application of critical reading skills.

ENG 220 - The Bible as Literature

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study the Bible from a literary perspective, with attention to historical and cultural contexts. Explore how the Bible uses literary devices to convey its themes. Analyze how biblical content and structures have influenced subsequent European and American literature. Prereq(s): *ENG 101/ENG 101A or permission of the department chair.* Crosslisted: *Also offered as ENG 220H; credit is not given for both ENG 220 and ENG 220H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain the composition and historical development of the Bible;
- Identify and trace those themes, symbols, and archetypes of the Bible that have influenced subsequent European and American literature;
- Analyze and evaluate selected complete texts to attain an understanding of the Bible's influence on important European and American works;
- Practice close textual analysis that demonstrates the application of critical thinking skills.

ENG 220H - The Bible as Literature – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Study the Bible from a literary perspective, with attention to historical and cultural contexts. Explore how the Bible uses literary devices to convey its themes. Analyze how biblical content and structures have influenced subsequent European and American literature. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair.* Crosslisted: *Also offered as ENG 220; credit is not given for both ENG 220H and ENG 220.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain the composition and historical development of the Bible;
- Identify and trace those themes, symbols, and archetypes of the Bible that have influenced subsequent European and American literature;
- Analyze and evaluate selected complete texts to attain an understanding of the Bible's influence on important European and American works;
- Practice close textual analysis that demonstrates the application of critical thinking skills.

ENG 221 - Introduction to Shakespeare

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study representative works selected from Shakespeare's tragedies, comedies, histories, romances, and sonnets, with attention to historical and cultural contexts. Prereq(s): *ENG 101/ENG 101A or permission of the department chair*. Crosslisted: *Also offered as ENG 221H; credit is not given for both ENG 221 and ENG 221H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Recognize, identify, and explain important elements of Shakespeare's work (e.g. his language, themes, imagery, and symbols);
- Explain the relationship of Shakespeare's poems and plays to their intellectual, social, historical, and cultural backgrounds;
- Describe Shakespeare's genres (comedies, histories, tragedies, romances, and poems);
- Compare the relationships of Shakespeare's genres to each other and to earlier traditions;
- Write analytically about Shakespeare's plays and sonnets using both primary and secondary texts;
- Apply critical thinking skills to analysis, discussion, and writing about Shakespeare's work.

ENG 221H - Introduction to Shakespeare – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Study representative works selected from Shakespeare's tragedies, comedies, histories, romances, and sonnets, with attention to historical and cultural contexts. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair*. Crosslisted: *Also offered as ENG 221; credit is not given for both ENG 221H and ENG 221*. Note: *Complete and present an honors capstone research project that extends beyond the classroom*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Recognize, identify, and explain important elements of Shakespeare's work (e.g. his language, themes, imagery, and symbols);
- Explain the relationship of Shakespeare's poems and plays to their intellectual, social, historical, and cultural backgrounds;
- Describe Shakespeare's genres (comedies, histories, tragedies, romances, and poems);
- Compare the relationships of Shakespeare's genres to each other and to earlier traditions;
- Write analytically about Shakespeare's plays and sonnets using both primary and secondary texts;
- Apply critical thinking skills to analysis, discussion, and writing about Shakespeare's work.

ENG 222 - The American Novel

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study representative novels of the United States from the 19th century to the present. Discuss matters of theme and style as well as developments in the form of the novel. Explore major cultural and literary currents reflected in the works. Prereq(s): *ENG 101/ENG 101A or permission of the department chair*. Crosslisted: *Also offered as ENG 222H; credit is not given for both ENG 222 and ENG 222H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the elements of the American novel from its beginning to the present;
- Explain the themes and approaches characteristic of the American novel;
- Analyze and evaluate representative American novels;
- Explain the relationship of the novels to their intellectual, social, and cultural backgrounds;
- Identify and trace the changes in novelistic form and techniques;
- Write analytically about American novels;

Practice close textual analysis through the application of critical reading skills.

ENG 222H - The American Novel – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Study representative novels of the United States from the 19th century to the present. Discuss matters of theme and style as well as developments in the form of the novel. Explore major cultural and literary currents reflected in the works. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair.* Crosslisted: *Also offered as ENG 222; credit is not given for both ENG 222H and ENG 222.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

ENG 223 - The British Novel

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study representative British novels from the 18th century to the present. Discuss matters of theme and style as well as developments in the form of the novel. Explore major cultural and literary currents reflected in the works. Prereq(s): *ENG 101/ENG 101A or permission of the department chair.* Crosslisted: *Also offered as ENG 223H; credit is not given for both ENG 223 and ENG 223H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe elements of the British novel from its beginning to the present;
- Explain the themes and approaches characteristic of the British novel;
- Analyze and evaluate representative British novels;
- Explain the relationship of the novels to their intellectual, social, and cultural backgrounds;
- Identify and trace the changes in novelistic form and techniques;
- Write analytically about British novels;
- Practice close textual analysis through the application of critical reading skills.

ENG 223H - The British Novel – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Study representative British novels from the 18th century to the present. Discuss matters of theme and style as well as developments in the form of the novel. Explore major cultural and literary currents reflected in the works. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair.* Crosslisted: *Also offered as ENG 223; credit is not given for both ENG 223H and ENG 223.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe elements of the British novel from its beginning to the present;
- Explain the themes and approaches characteristic of the British novel;
- Analyze and evaluate representative British novels;
- Explain the relationship of the novels to their intellectual, social, and cultural backgrounds;
- Identify and trace the changes in novelistic form and techniques;
- Write analytically about British novels;
- Practice close textual analysis through the application of critical reading skills.

ENG 224 - Modern American Poetry

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study representative 20th and 21st century poetry of the United States. Discuss influential poetic theories and movements as well as the social and political contexts out of which the poetry

arose. Prereq(s): *ENG 101/ENG 101A or permission of the department chair*. Crosslisted: *Also offered as ENG 224H; credit is not given for both ENG 224 and ENG 224H*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and explain the work of prominent modern American poets;
- Read poems closely and analytically;
- Describe the social, political, psychological, and spiritual themes of modern American poetry;
- Describe important poetic traditions and schools of thought and poetic practice from which the poetry is derived or with which it is associated;
- Explain what is meant by 'modernism' in poetry and the arts in general;
- Identify poetic conventions at work in the poetry under consideration;
- Articulate ideas about poetry in writing, speech, or both;
- Explain the diversity of backgrounds, circumstances, and orientations out of which the poetry was written.

ENG 224H - Modern American Poetry – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Study representative 20th and 21st century poetry of the United States. Discuss influential poetic theories and movements as well as the social and political contexts out of which the poetry arose. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair*. Crosslisted: *Also offered as ENG 224; credit is not given for both ENG 224H and ENG 224*. Note: *Complete and present an honors capstone research project that extends beyond the classroom*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

ENG 225 - African American Literature

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Explore the poetry, fiction, nonfiction and drama of African Americans of the United States from the 18th century to the present. Study major literary, political, and social currents that inspired this writing. Prereq(s): *ENG 101/ENG 101A or permission of the department chair*. Crosslisted: *Also offered as AFA 225, AFA 225H and ENG 225H; credit is given for only one of the following: AFA 225, AFA 225H, ENG 225 or ENG 225H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and explain the elements of African American literature from its beginnings to the present;
- Explain elements of African literature found in African American literature;
- Identify and explain important works written by African American authors;
- Explain the relationship of African American literature to its social, intellectual, and cultural backgrounds;
- Trace the changes in theme, style, and form employed by African American writers;
- Write analytically about African American literature
- Practice close textual analysis through application of critical reading skills.

ENG 225H - African American Literature -Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity requirement. Explore the poetry, fiction, nonfiction and drama of African Americans of the United States from the 18th century to the present. Study major literary, political, and social currents that inspired this writing. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair*. Crosslisted: *Also offered as AFA 225, AFA 225H and ENG 225; credit is given for only one of the following: AFA 225, AFA 225H, ENG 225 or ENG 225H*. Note: *Complete and present an honors capstone research project that extends beyond the classroom*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and explain the elements of African American literature from its beginnings to the present;
- Explain elements of African literature found in African American literature;
- Identify and explain important works written by African American authors;
- Explain the relationship of African American literature to its social, intellectual, and cultural backgrounds;
- Trace the changes in theme, style, and form employed by African American writers;
- Write analytically about African American literature
- Practice close textual analysis through application of critical reading skills.

ENG 226 - Ethnic American Literature

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Explore ethnicity and its relationship to race, culture, and religion. Study ethnic literatures of the United States, including readings from African American, Latino/Latina, Asian American, Native American Arab American, and Jewish American literatures. Read poetry, fiction, non-fiction and drama by ethnic American writers and discuss these works in their literary and historical contexts, including the social and political circumstances out of which they arise. Prereq(s): *ENG 101/ENG 101A or permission of the department chair*. Crosslisted: *Also offered as ENG 226H; credit is not given for both ENG 226 and ENG 226H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify important ethnic literary traditions within American culture;
- Explain racial, ethnic, gender, and class differences within American society;
- Identify and explain common themes among the literary traditions and awareness of their distinct cultural values and perspectives;
- Identify and explain important works by ethnic writers;
- Write analytically about ethnic American literature;
- Practice close textual analysis through application of critical reading skills.

ENG 226H - Ethnic American Literature – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Explore ethnicity and its relationship to race, culture, and religion. Study ethnic literatures of the United States, including readings from African American, Latino/Latina, Asian American, Native American, Arab American, and Jewish American literatures. Read poetry, fiction, non-fiction and drama by ethnic American writers and discuss these works in their literary and historical contexts, including the social and political circumstances out of which they arise. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair*. Crosslisted: *Also offered as ENG 226; credit is not given for both ENG 226H and ENG 226*. Note: *Complete and present an honors capstone research project that extends beyond the classroom*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify important ethnic literary traditions within American culture;
- Explain racial, ethnic, gender, and class differences within American society;
- Identify and explain common themes among the literary traditions and awareness of their distinct cultural values and perspectives;
- Identify and explain important works by ethnic writers;
- Write analytically about ethnic American literature;
- Practice close textual analysis through application of critical reading skills.

ENG 227 - Literary Nonfiction

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study representative readings in literary nonfiction. Discuss types of nonfiction writing, literary traditions and style, including the Personal Essay, Literary Journalism, Nature/Science writing, the Literary Memoir, Travel Writing and Humor. Prereq(s): *ENG 101/ENG 101A or permission of the department chair*. Crosslisted: *Also offered as ENG 227H; credit is not given for both ENG 227 and ENG 227H*. Location(s) Typically Offered: Arnold (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Define literary nonfiction and its various sub-genres;
- Recognize the various strategies, structures, and styles used by nonfiction writers;
- Write and discuss nonfiction using critical thinking and careful analysis.

ENG 227H - Literary Nonfiction – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Study representative readings in literary nonfiction. Discuss types of nonfiction writing, literary traditions and style, including the Personal Essay, Literary Journalism, Nature/Science writing, the Literary Memoir, Travel Writing and Humor. Complete and present an honors capstone research project that extends beyond the classroom. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair*. Crosslisted: *Also offered as ENG 227; credit is not given for both ENG 227H and ENG 227*. Note: *Complete and present an honors capstone research project that extends beyond the classroom*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Define literary nonfiction and its various sub-genres;
- Recognize the various strategies, structures, and styles used by nonfiction writers;
- Write and discuss nonfiction using critical thinking and careful analysis.

ENG 228 - Literature in English by Women

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Compare and analyze multicultural literature in English, written by women of diverse regions, cultures, races, sexualities, religions and classes. Explore the relationships between gender and literary form, content, production, evaluation, and interpretation, with attention to historical, social, cultural, and political contexts, as well as literary analysis. Readings include poetry, prose and drama. Prereq(s): *ENG 101/ENG 101A or permission of the department chair*. Crosslisted: *Also offered as GSS 228, GSS 228H and ENG 228H; credit is given for only one of the following: GSS 228, GSS 228H, ENG 228 or ENG 228H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and explain theoretical approaches to literature developed by feminist literary scholars;
- Explain how gender, race, and class inform and influence individual writings by women and women's literary traditions;
- Identify and explain important works written by British and American women writers;
- Explain the relationship of the literature to its intellectual, social, cultural, and political backgrounds;
- Analyze how women writers modify traditional literary forms, styles, and themes;
- Write analytically about literature;
- Practice close textual analysis through application of critical reading skills.

ENG 228H - Literature in English by Women – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Compare and analyze multicultural literature in English, written by women of diverse regions, cultures, races, sexualities, religions and classes. Explore the relationships between gender and literary form, content, production, evaluation, and interpretation, with attention to historical, social, cultural, and political contexts, as well as literary analysis. Readings include poetry, prose and drama. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair.* Crosslisted: *Also offered as GSS 228, GSS 228H and ENG 228; credit is given for only one of the following: GSS 228, GSS 228H, ENG 228 or ENG 228H.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and explain theoretical approaches to literature developed by feminist literary scholars;
- Explain how gender, race, and class inform and influence individual writings by women and women's literary traditions;
- Identify and explain important works written by British and American women writers;
- Explain the relationship of the literature to its intellectual, social, cultural, and political backgrounds;
- Analyze how women writers modify traditional literary forms, styles, and themes;
- Write analytically about literature;
- Practice close textual analysis through application of critical reading skills.

ENG 235 - Modern Drama

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study significant individual works from modern and contemporary playwrights writing in English. Discuss thematic, stylistic, and conventional/generic concerns as well as social, literary and historical contexts of the plays. Prereq(s): *ENG 101/ENG 101A or permission of the department chair.* Crosslisted: *Also offered as ENG 235H; credit is not given for both ENG 235 and ENG 235H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain the elements of the modern and contemporary theater as represented by significant works from modern and contemporary playwrights writing in English (or translated into English).
- Describe the schools, styles, themes, and conventions that constitute the modern dramatic tradition.
- Analyze and evaluate representative plays of the modern era.
- Explain the relationship of the plays to their intellectual, social, and cultural backgrounds.
- Trace changes in dramatic forms, styles, and conventions.
- Write analytically about modern drama.
- Practice close textual analysis through application of critical reading skills.

ENG 235H - Modern Drama – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Study significant individual works from modern and contemporary playwrights writing in English. Discuss thematic, stylistic, and conventional/generic concerns as well as social, literary and historical contexts of the plays. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair.* Crosslisted: *Also offered as ENG 235; credit is not given for both ENG 235H and ENG 235.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

Explain the elements of the modern and contemporary theater as represented by significant works from modern and contemporary playwrights writing in English (or translated into English).
Describe the schools, styles, themes, and conventions that constitute the modern dramatic tradition.
Analyze and evaluate representative plays of the modern era.
Explain the relationship of the plays to their intellectual, social, and cultural backgrounds.
Trace changes in dramatic forms, styles, and conventions.
Write analytically about modern drama.
Practice close textual analysis through application of critical reading skills.

ENG 250 - Literature of the Chesapeake Bay

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study the history and ecology of the Chesapeake Bay area and its watershed as well as depictions of the region in various literary genres, including fiction, poetry, literary memoir, nature writing and journalism. Prereq(s): *ENG 101/ENG 101A or permission of the department chair*. Crosslisted: *Also offered as ENG 250H; credit is not given for both ENG 250 and ENG 250H*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Describe the literature and history of the Chesapeake Bay and watershed area;
Identify and compare multiple genre approaches to the region;
Assess how the different texts and genres address a shared subject;
Explain the ecological concerns of the Chesapeake Bay as represented through the literature;
Recognize how perception of our environment is shaped and colored by inherited cultural paradigms;
Practice close textual analysis through application of critical reading skills.
Write analytically about literature.

ENG 250H - Literature of the Chesapeake Bay- Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Study the history and ecology of the Chesapeake Bay area and its watershed as well as depictions of the region in various literary genres, including fiction, poetry, literary memoir, nature writing and journalism. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair*. Crosslisted: *Also offered as ENG 250; credit is not given for both ENG 250H and ENG 250*. Note: *Complete and present an honors capstone research project that extends beyond the classroom*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Describe the literature and history of the Chesapeake Bay and watershed area;
Identify and compare multiple genre approaches to the region;
Assess how the different texts and genres address a shared subject;
Explain the ecological concerns of the Chesapeake Bay as represented through the literature;
Recognize how perception of our environment is shaped and colored by inherited cultural paradigms;
Practice close textual analysis through application of critical reading skills.
Write analytically about literature

ENG 260-269 - Travels in Literature

3 credit hours -

A travel-study course with guided trips during Christmas, spring break or summer to sites associated with important literary periods and figures. Each term a particular literary period or movement and major writers associated with it will be the focus for intensive study. Emphasis is on the relationship between the period and milieu and the writers and their writings. Pertinent major works will be read and discussed before the trip. Lecture attendance, a research paper and a final exam are required. Trip fees are to be charged in addition to course tuition. Trip length will range between one and two weeks. Prereq(s): *ENG 101/ENG 101A or permission of the department chair*.

ENG 275 - Creative Writing: Literary Publishing Practicum - Working on Amaranth

1 credit hour - Two and a half hours weekly; one term.

Opportunity to work on the student creative writing journal under the supervision of the faculty adviser. One credit is given for two and a half hours of work per week for a maximum of three credits per term. Students write and edit for publication and may work on any phase of journal production. May be repeated for a total of six credit hours. Coreq(s): *ENG 200 or permission of department.*

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Determine a set of criteria for work of publishable quality.
- Read and critically discuss work submitted to *Amaranth*.
- Evaluate and select work of publishable quality using criteria established.
- Edit, proofread, and prepare the layout of the selected work for publication.

ENG 276 - Creative Writing: Literary Publishing Practicum - Working on Amaranth

2 credit hours - Five hours weekly; one term.

Opportunity to work on the student creative writing journal under the supervision of the faculty adviser. One credit is given for two and a half hours of work per week for a maximum of three credits per term. Students write and edit for publication and may work on any phase of journal production. May be repeated for a total of six credit hours. Coreq(s): *ENG 200 or permission of department.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Determine a set of criteria for work of publishable quality.
- Read and critically discuss work submitted to *Amaranth*.
- Evaluate and select work of publishable quality using criteria established.
- Edit, proofread, and prepare the layout of the selected work for publication.
- Solicit submissions of creative work.
- Develop a community of writers through participation in social events.
- Distribute a publication to specific audiences in the college community.

ENG 277 - Creative Writing: Literary Publishing Practicum - Working on Amaranth

3 credit hours - Seven and a half hours weekly; one term.

Opportunity to work on the student creative writing journal under the supervision of the faculty adviser. One credit is given for two and a half hours of work per week for a maximum of three credits per term. Students write and edit for publication and may work on any phase of journal production. May be repeated for a total of six credit hours. Coreq(s): *ENG 200 or permission of department.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Determine a set of criteria for work of publishable quality.
- Read and critically discuss work submitted to *Amaranth*.
- Evaluate and select work of publishable quality using criteria established.
- Edit, proofread, and prepare the layout of the selected work for publication.
- Solicit submissions of creative work.
- Develop a community of writers through participation in social events.
- Distribute a publication to specific audiences in the college community.
- Manage submissions to *Amaranth* and correspond with submitters.
- Conduct staff meetings.
- Solicit and manage a budget.
- Create a publication that best reflects the work and values of the college community.

ENG 280-299 - Special Topics in English

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An in-depth examination of a number of literary works, focusing on a single major theme or author's work or on a particular genre; a

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workshop in a sub-genre of creative writing; or a course in a sub-specialty of professional writing. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Prereq(s): *ENG 101/ENG 101A or permission of the department chair.*

English Language Learning

ELL 310 - Low Intermediate Grammar and Writing

4 equivalent hours - One Term

Apply the rules of grammar to academically written paragraphs. Grammar topics include the study of the present, past, and future verb tenses. Identify and use modals to express ability, advice, and necessity. Correct sentence structure is emphasized. This knowledge is applied to writing four types of well-organized paragraphs using the writing process. Textbook information available at AACC Bookstore. CEUs issued. Prereq(s): Accuplacer LOEP testing placement. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Use present and past verb tenses clearly in writing.
2. Expand the expression of ideas in the future tense.
3. Apply the rules of grammar to written texts.
4. Compose formal academic paragraphs.
5. Edit paragraphs for accurate grammar and mechanics.

ELL 311 - Low Intermediate Reading

4 equivalent hours - One Term

Develop reading strategies to increase comprehension of academic texts and to increase reading speed. Differentiate main ideas from supporting details. Expand reading to include both fiction and nonfiction texts. Understand and retain vocabulary. Textbook information available at AACC Bookstore. CEUs issued. Prereq(s): Accuplacer LOEP testing placement. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Off Campus (OF), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Use reading strategies to enhance the reading process.
2. Utilize critical thinking skills while reading various texts.
3. Demonstrate improved vocabulary skills.
4. Develop vocabulary strategies to improve reading proficiency.
5. Read faster and more fluently.

ELL 312 - Low Intermediate Listening and Pronunciation

4 equivalent hours - One Term

Learn to communicate clearly through correct pronunciation and use of sounds, stress, rhythm and intonation. Practice pronunciation with various communicative activities. Develop vocabulary and effective speaking skills. Textbook information available at AACC Bookstore. CEUs issued. Prereq(s): Accuplacer LOEP testing placement. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Improve pronunciation of vowels and consonants.
2. Identify word syllables and stress.
3. Use appropriate rhythm patterns and intonation.
4. Recognize and employ effective speaking strategies.
5. Develop and increase academic vocabulary.

ELL 313 - High Intermediate Grammar

4 equivalent hours - One Term

Continue building grammar skills with present, past, and future verb tenses. Express ideas in the present perfect. Form comparisons using adjectives and adverbs. Expand use of nouns and pronouns accurately in academic speech and writing. Textbook information available at AACC Bookstore. CEUs issued. Prereq(s): *ELL 310 or Accuplacer LOEP testing placement*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate proficiency in using simple past, present, and future verb tenses in speech and writing.
2. Deepen proficiency in using the present and past progressive verb tenses in speech and writing.
3. Express ideas using the present perfect verb tense.
4. Form questions and use short responses more accurately.
5. Use basic parts of speech, such as nouns, pronouns, articles, and quantifiers accurately.

ELL 314 - High Intermediate Reading and Writing

4 equivalent hours - One Term

This continuing education course is designed for high intermediate level non-native speakers of English and provides instruction on developing proficiency in reading texts and composing strong paragraphs and short essays for academic purposes. Topics include reading critically to improve comprehension of academic fiction and nonfiction texts with a focus on the writing process to compose academic paragraphs and essays in response to reading texts. Prereq(s): *ELL 311 or Accuplacer LOEP testing placement*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate the ability to read critically to improve comprehension of various types of academic texts.
2. Increase academic vocabulary using decoding skills and analysis of grammar and syntax.
3. Write strong academic paragraphs.
4. Utilize the writing process to produce short essays.
5. Practice applying correct grammar and academic vocabulary when revising text.

ELL 315 - High Intermediate Listening and Presentations

4 equivalent hours - One Term

This continuing education course is designed for high intermediate level non-native speakers of English and provides instruction on developing greater proficiency in listening and speaking skills for academic purposes. Topics include improving listening comprehension and speaking skills, with a focus on the effective delivery of academic presentations. Prereq(s): *ELL 312 or Accuplacer LOEP testing placement*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Employ active listening skills and strategies for a variety of purposes.
2. Communicate in a variety of contexts using formal and informal language.
3. Prepare content for oral presentations.
4. Demonstrate proficiency in delivering effective oral presentations.
5. Develop and increase academic vocabulary.

ELL 316 - Advanced Grammar

4 equivalent hours - One Term

This continuing education course is designed for advanced level non-native speakers of English and provides instruction on developing greater proficiency in English grammar skills for academic purposes. Topics include the present and past perfect verb tenses, with a focus on adjective and noun clauses, the passive verb tense, gerunds and infinitives, comparisons and connectors in academic speech and writing. Prereq(s): *ELL 313 or Accuplacer LOEP testing placement*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Express ideas using the present perfect and past perfect verb tenses.
2. Use discourse connectors to connect ideas in speech and writing.
3. Develop proficiency in using the passive verb tense, gerunds and infinitives in speech and writing.
4. Articulate comparisons with adverbs and adjectives more accurately.
5. Compose complex sentences using adjective and noun clauses.

ELL 317 - Advanced Reading and Writing

4 equivalent hours - One Term

This continuing education course is designed for advanced level non-native speakers of English and provides instruction on academic reading comprehension skills and employing the writing process to develop formal academic essays. Topics include reading skills and strategies, expanding academic vocabulary, with a focus on using the writing process to compose academic essays. Prereq(s): *ELL 314 or Accuplacer LOEP testing placement*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Apply reading skills and strategies to improve comprehension of various academic texts.
2. Recognize rhetorical patterns of textual organization.
3. Utilized an expanded academic vocabulary.
4. Apply critical thinking skills to transfer insights gained from reading to writing.
5. Employ the writing process to develop various academic essays.

ELL 318 - Advanced Listening and Note Taking

4 equivalent hours - One Term

This continuing education course is designed for advanced level non-native speakers of English and provides instruction on developing greater proficiency in listening and speaking for academic purposes. Topics include building listening comprehension, note-taking skills, and academic vocabulary, with a focus on developing critical thinking skills. Prereq(s): *ELL 315 or Accuplacer LOEP testing placement*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Use active listening skills and strategies for a variety of purposes.
2. Reinforce note taking skills to comprehend complex dialogues and lectures.
3. Apply more highly developed critical thinking skills.
4. Practice effective discussion strategies for academic settings.
5. Employ an expanded academic vocabulary.

ELL 319 - Capstone Grammar and Editing

2 equivalent hours - One Term

This continuing education course is designed for capstone level non-native speakers of English and provides instruction on achieving proficiency in using grammar and vocabulary accurately in academic writing. Topics include review and practice of all verb tenses, conditionals, and the passive, with a focus on editing and developing vocabulary related to formal academic writing. Prereq(s): *ELL 316 or Accuplacer LOEP testing placement*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate competency in expressing ideas in the past, present and future using appropriate verb tenses.
2. Demonstrate proficiency in using passive verb tenses.
3. Use gerunds, infinitives, and conditionals properly.
4. Utilize adjective, noun, and adverbial clauses accurately in complex sentences.
5. Employ more highly developed vocabulary and editing skills to improve language accuracy.

ELL 320 - Capstone Reading and Writing

4 equivalent hours - One Term

This continuing education course is designed for capstone level non-native speakers of English and provides instruction on achieving proficient reading and writing skills for academic college-level work. Topics include using reading strategies to strengthen comprehension and critical analysis skills, combined with a focus on developing research and writing skills for academic purposes.

Prereq(s): *ELL 317 or Accuplacer LOEP testing placement.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate the ability to read critically by applying strategies to improve comprehension of both fiction and nonfiction academic texts.
2. Use academic vocabulary, grammar, and syntax appropriately.
3. Practice academic writing in preparation for college courses.
4. Research and produce a career portfolio.
5. Evaluate research material from various academic sources to support writing assignments.
6. Develop and record personal reading and writing processes. Evaluate primary sources.
7. Develop the whole essay, body of the essay, and sentence complexity.
8. Pass the exit exam (35% of final grade).

Entrepreneurial Studies

ESI 103 - Introduction to Entrepreneurship

3 credit hours - Three hours weekly; one term.

Discover and practice the components of entrepreneurship, idea generation, creative thinking and opportunity recognition. Experiment using entrepreneurial methods and evaluate potential business ideas. Compare and analyze various strategies entrepreneurs have used to start and grow their businesses. Lab fee \$16. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify business opportunities using the eight components of the practice of entrepreneurship.
- Discuss trends and changes that might affect potential business opportunities.
- Use critical thinking, concept testing, and feasibility analysis to evaluate entrepreneurial opportunities.
- Discuss the pros and cons of various strategies that entrepreneurs have used to successfully start and grow their business.
- Discuss how business models and plans affect the overall success of an organization.

ESI 104 - Entrepreneurship: Sales & Marketing for Small Business

3 credit hours - Three hours weekly; one term.

Gain experience using tools and skills that small business owners need to market their business successfully on a small scale and small budget. Review the sales cycle, the sales process, and the importance of good customer service. Develop a comprehensive marketing plan for a small business. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Define marketing and identify its key concepts.
- Evaluate various strategies used by marketers to grow their customer base.
- Prepare a realistic marketing budget.
- Design a sales process for a small business.
- Create a small business marketing plan.
- Present a sales/marketing pitch.

ESI 231 - Introduction to Social Entrepreneurship and Nonprofit Management

3 credit hours - Three hours weekly; one term.

Provides an overview of how social entrepreneurs plan, organize, lead, manage, and market nonprofit or not-for-profit organizations. Students examine practical ways to define a community's needs in order to establish an organization's direction, work with a board of directors, and lead both volunteer and paid staff members. This course discusses how to use marketing and communications for developing and sustaining relationships with benefactors and beneficiaries. This course also provides discussion and practical applications of other critical topics including strategic planning, operations management, human resource management, learning and knowledge management, legal requirements, public relations, political action, and financial management. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Infrequently

Course Outcomes

Upon successful completion of this course, the student will be able to:

Discuss concepts of how to plan, organize, lead, manage, and market Non-Profit or Not-For Profit Organizations.

Identify trends and social changes for the planning, organizing, leading, and managing of Non Profit and Not-For Profit organizations.

Identify concepts for marketing Non Profit and Not-For Profit organizations.

Discuss strategies used by social entrepreneurs for expanding their circle of stakeholders.

Examine practical ways to define a community's needs in order to establish an organization's direction.

Discuss practical ways to define a community's needs.

Discuss how to develop a Mission and Vision Statement that reflect a community's needs.

Identify strategies for collecting and analyzing data required to define a community's needs.

Identify methods for collecting and analyzing data define a community's needs.

Develop a practical knowledge management system for sustaining an organization's direction.

Examine practical ways to work with a Board of Directors and lead both volunteer and paid staff.

Discuss practical ways to work with a Board of Directors.

Discuss practical ways to lead volunteer and paid staff members.

Identify strategies for working with a Board of Directors.

Identify strategies for leading volunteers and paid staff.

Examine how to use marketing and communications for developing and sustaining relationships with benefactors and beneficiaries.

Discuss practical ways to use marketing and communications for developing and sustaining relationships with benefactors and beneficiaries.

Identify marketing and communications strategies for developing and sustaining relationships with benefactors and beneficiaries.

Develop a marketing concept for developing and sustaining relationships with benefactors and beneficiaries.

Develop a communications plan for developing and sustaining relationships with benefactors and beneficiaries.

Examine practical applications of strategic planning, operations management, human resource management, learning and knowledge management, legal requirements, public relations, political action, and financial management.

Discuss practical ways to use public relations and political action for developing a Non-Profit or Not-For Profit organization.

Develop skills and tools for operations and human resource management of a Non-Profit or Not-For Profit Organization.

Develop an overall strategic plan for a Non-Profit or Not-For Profit Organization.

Develop skills and tools for the financial management of a Non-Profit or Not-For Profit Organization.

Identify legal requirements for Non-Profit and Not-For Profit Organizations.

ESI 270 - Entrepreneurship: New Venture Planning

3 credit hours - Three hours weekly; one term.

Learn the process of business planning in this capstone course and work on a semester-long comprehensive business plan for a new venture or existing business. Learn from guest speakers and individual meetings with the instructor with a focus on applied learning. Explore the use of computer software to aid in planning and managing a new venture. Designed for individuals interested in starting a new venture, acquiring an existing business, or working in industries that serve entrepreneurs and managers. Lab fee \$25. Prereq(s): ESI 103. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Write a concise and comprehensive executive summary for a business plan.
- Develop a clear and convincing marketing plan for a new or existing business.
- Describe operations, production, and organizational plans for a new or existing business.
- Create a comprehensive financial plan with start-up costs and financial projections using data and research.
- Present a professional business pitch in a clear, concise, comprehensive, and convincing manner.

Future

FTR 115 - The Future of Aging

3 credit hours - Three hours weekly; one term.

Explore the effects of an aging society on the future. Use futuring tools to examine the impacts of the longevity revolution on economics, health care, the environment, family life, housing, technology and transportation. Develop an understanding of the opportunities and challenges created by an aging society.

Course Outcomes

Introduction to the future of aging.

- Present the changing demographics of the aging population.
- Explain the challenges resulting from an aging society.
- Discuss the opportunities presented by an aging society.
- Introduce futures thinking and futuring tools.

Discuss the economics of Aging.

- Explain the impact of economic uncertainty on the aging population.
- Explore the issues of work and retirement.
- Rethink the government safety net.
- Discuss the cost and means of paying for government services.

Explore the impact of the environment on the aging population.

- Discuss food production and water scarcity.
- Evaluate the impact of natural and manmade disasters.
- Explore the effect of wars.

Understand the issues of aging and the family.

- Discuss the evolution of the family.
- Explore the issues of diversity.
- Understand the costs and issues involved in caregiving.

Explain and identify the issues and opportunities for housing for the aging population.

- Understand current models for housing for aging people.
- Discuss ideas for future housing models.
- Develop new opportunities for housing for aging people.

Study the impact of technology on the aging population.

- Discuss fitness and health.
- Examine medical advances.
- Evaluate transportation options.

Study the issues of health care for the aging population.

- Understand the issues involved in paying for health care.
- Explore the implications of longevity.
- Examine the challenge of increased health or increased chronic illness chronic illness.
- Understand the impact of Alzheimer's disease.
- Discuss mental health and addiction among aging people.
- Understand the direction and implications of biomedical research.
- Discuss end of life issues.

FTR 280-299 - Special Topics in Future Studies

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A focused study of specialized themes or topics involving the Future. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Gender and Sexuality Studies

GSS 101 - Introduction to Women's Studies

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Explore issues in the lives of American women. Examine women's experiences in gender-defining social institutions including the arts, education, the labor force, law and politics, marriage and family life and religion. Analyze, from a multicultural perspective, how issues of gender, power and equity affect women's lives. Especially recommended for students who plan to transfer into a women's studies major, minor or certificate program at a four-year institution. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain the role that sex and gender play in interpersonal relationships, institutions, and social groups.
- Explain the ways in which sex and gender intersect with other variables of difference like race, ethnicity, class, sexual orientation, dis/ability, religion, age and nation to affect access to power and privilege in different social and historical contexts.
- Explain the ideological assumptions underlying social institutions and the causes and effects of structured inequality.
- Analyze the ways in which cultural representations reflect, perpetuate, and challenge social inequality and help construct identity.
- Explain women's contributions to politics, the economy, culture, and family life.
- Apply theoretical and methodological approaches from multiple disciplinary frameworks to the study of sex and gender.

GSS 102 - Introduction to Masculinity Studies

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Explore issues in the lives of American men. Investigates the interdisciplinary field of masculinity studies by examining contemporary theories of masculinity, changes in the definitions of masculinity in different periods of American history, the sociology and psychology of men's experiences, and gender and sexuality as organizing features of men's lives. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as AMS 102 and SOC 102; credit is given for only one of the following: AMS 102, GSS 102 or SOC 102*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Use an interdisciplinary approach to evaluate and synthesize scholarship on gender.
- Apply different theoretical approaches to issues of gender and socialization.
- Explain how cultural, social, political, and historical forces shape gender roles and gender relations.
- Discuss the effect of diversity on the American government and economy.
- Describe how gender roles and relations are socially and culturally constructed with attention to gender-defining social institutions.
- Explain how gender stereotypes are reproduced and resisted through the process of socialization with attention to various agents of socialization including the family, peer groups, media, and schools.

GSS 113 - Women's Health

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. This course meets the Wellness Requirement. Learn the physical and mental health events that confront women in our society. Investigate disease and stress ailments particular to women in our ever-changing world. Crosslisted: *Also offered as HEA 113; credit is not given for both GSS 113 and HEA 113*. Location(s) Typically Offered: Arnold

Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Explain reproductive structure & function of the male/female system

- Identify the major external and internal female and male reproductive structures and function
- Name the various phases of the menstruation cycle
- Explain the mechanism, risk, benefits, side effects and contraindications of hormonal, barrier, permanent, and other methods of contraception

Explain pregnancy health and risk

- Identify how conception occurs and the process of cell division after fertilization
- Cite the recommended nutritional and health guidelines during pregnancy
- Identify the common prenatal tests, potential complications of pregnancy, and the significant issues surrounding childbirth, labor, and delivery
- Summarize the legal types of abortion procedures, and the historical timeline of abortion legislation in the United States

Explain Risky Health Behaviors

- Explain the health consequences of smoking, including the impact of involuntary smoking
- Identify the components of cigarettes and cigarette smoke
- Name the physiological and social consequence of alcohol consumption
- Cite the symptoms, treatment, causes, and prevention tactics associated with sexually transmitted infections in women, including during a pregnancy
- Discuss why good communication is essential with regard to sexually transmitted infections

Describe the importance of Wellness and Physical Fitness

- Explain the interconnected roles of emotional, mental, social, spiritual and physical dimensions of health
- Compute the following heart rates: Resting heart rate, Target heart rate, Exercise heart rate, Maximum heart rate, and Recovery heart rate
- Discuss benefits and principles of cardiovascular endurance training
- Discuss benefits and principles of cardiovascular endurance training
- Interpret results from measurements of body composition
- Identify the 6 classes of essential nutrients and describes their function
- Describe the Food Guide Pyramid and explains its significance
- Evaluate personal food intake using the RDA values for each nutrient and nutrition food labels
- Examine the three stages of the stress response
- Identify common stressors to college students in the U.S. and contrasts them to stressors that exist in other countries.
- Suggest effective ways to manage stress.

Describe Health Conditions specific to Women

- Identify how cultural and societal attitudes influence attitudes about menopause
- Discuss the health risk and benefits associated with HRT
- Identify the basic biological sequence of events associated with menopause
- Explain the risk factors, screening methods, and treatment modalities for breast, cervical, ovarian and uterine cancer
- Identify the purpose of a pap smear and vaccine, and how this relates to the benign cervical conditions as well as cervical cancer
- Identify the prevention methods of cardiovascular disease and cancer through lifestyle changes
- Explain the major modifiable risk factors associated with cardiovascular disease

Describe Personal Safety Issues, Self Esteem, and Body Image

- Describe the forms of battering, including physical, sexual, property, psychological, and social violence
- Identify how rape can affect physical health, mental health, sexual intimacy, and relationships
- Discuss the prevalence of violence toward women by strangers
- Discuss sexual harassment as a form of social control and how it affects women in the workplace
- Identify strategies for effective techniques to deal with relationship violence and sexual harassment
- Explain how body image has changed over time
- Identify causes, symptoms, and treatments for anorexia nervosa and bulimia nervosa

GSS 117 - Healthy Aging for Women

3 credit hours - Three hours weekly; one term.

This course meets the Wellness Requirement. Examine the health and wellness related changes of women as they age. Investigate

exercise, nutrition, menopause, osteoporosis, cardiovascular disease, female cancers, mental health, and gynecological health concerns and examine how women can influence these age-associated changes to live a healthy life. Note: *Also offered as HEA 117; credit is not given for both GSS 117 and HEA 117.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Identify the dimensions of wellness and analyze their impact on women's health as they age.
- Evaluate and cite credible resources related to women's health and aging.
- Compare and contrast healthy and risky lifestyle behaviors.
- Explain how a lifestyle that includes exercise, proper nutrition and stress management contributes to healthy living throughout the lifespan and its effect on future generations.
- Analyze research on the biology of aging.
- Identify lifestyle modifications for optimal health and wellness.

GSS 169 - Music, Power and Gender

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Considers music ranging from ancient and medieval music to modern rock and alternative music, from Western music to the music of Asia, Africa, the Middle East and South America, music as a contested terrain in terms of gender, identity and power. Course uses the perspectives of gender studies and ethnomusicology as well as conventional music scholarship to examine women's contributions to world music, Western classical music and popular American music. Crosslisted: *Also offered as MUS 169; credit is not given for both GSS 169 and MUS 169.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

GSS 210 - Images of Women

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Gain a multidisciplinary overview of the portrayal of women in the humanities. Emphasize the understanding of women as defined by mythological, religious, philosophical and artistic traditions. Crosslisted: *Also offered as HUM 210; credit is not given for both GSS 210 and HUM 210.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student should be able to:

1. Explain how women were portrayed and defined in representative works from Western mythology, religion, philosophy and art;
2. Articulate the role of imagery and symbolism in the construction of gender;
3. Exemplify the contradictions between women's lived experiences and cultural images of women;
4. Name and describe historical and contemporary contributions of women in the humanities.

GSS 211 - Gender and Mass Media in the United States

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Learn principles of contemporary mass media scholarship. Examine how media creates and perpetuates constructions of masculinity and femininity and how these constructions relate to race, ethnicity, class, sexuality and other variables of difference. Explore the political economy of media production, the relationship between media and ideology and audience reception. Crosslisted: *Also offered as AMS 211; credit is not given for both GSS 211 and AMS 211.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Winter and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Analyze media representation through intersectional and interdisciplinary lenses.
- Examine the ways in which culture reflects, creates, perpetuates, and/or resists social hierarchies and structural inequalities.
- Explain the political economy of media production and dissemination in conversation with critical discussions of audience reception and consumption.

GSS 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Examine the diversity of lesbian, gay, bisexual and transgender (LGBT) behaviors, orientations, identities, communities, and issues from a transhistorical, cross-cultural and interdisciplinary perspective with special emphasis on LGBT culture in the United States. Study the history of human sexuality and gender identity/expression; cultural and social constructions of sexuality and gender; representations of LGBT experience in textual and visual media; legal rights and restrictions; current events and socio-political issues of current interest; methods of queer theory/queer studies; and advocacy, activism and change. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as AMS 212 and SOC 212; credit is given for only one of the following: AMS 212, GSS 212 or SOC 212*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Use appropriate vocabulary to explain key concepts related to LGBT studies.
- Identify key debates over sexual identity with attention to the issues of power, privilege, and oppression.
- Discuss the influence of earlier academic and political movements in the development of LGBT studies, as well as the relationship between Gay and Lesbian Studies, Queer Studies, and Queer Theory.
- Analyze negative cultural images of LGBT people, the use of pop culture to establish an LGBT cultural identity, and the contributions by LGBT people to the arts.
- Discuss psychological, medical, and safety issues, as well as interventions in the lives of LGBT people.
- Discuss LGBT experiences in different global cultures and in different contexts within the US.
- Survey the major historical events in early LGBT history and trace the major events in recent US history.
- Discuss civil rights, safety, health, and work issues that affect LGBT people, and the potential remedies advocated by various LGBT movements.

GSS 213 - Marriage and the Family

3 credit hours - Three hours weekly; one term.

Survey of the dynamics of life in families. A view of the family as a changing social unit and implications of these changes for the individual. Reviews social forces that influence mating and dating, marriage and divorce, and deals with topics of love, sexuality, parenting, aging and death. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as SOC 213; credit is not given for both GSS 213 and SOC 213*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

GSS 215 - Psychology of Relationships

3 credit hours - Three hours weekly; one term.

Psychological view of interpersonal relationships including interpersonal influence and leadership, close relationships and friendships, psychology of the sexes, love and intimacy and relationships at the workplace. Includes different perspectives and theories of interpersonal relationships and communication. Prereq(s): *PSY 111 or permission of department chair*. Crosslisted: *Also offered as PSY 215; credit is not given for both GSS 215 and PSY 215*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

GSS 216 - Human Sexuality

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Learn current information concerning biological, psychological and sociological aspects of human sexual functioning and related concerns. Prereq(s): *PSY 111, PSY 111H, or permission of department chair*. Crosslisted: *Also offered as PSY 216/PSY 216H/GSS 216H*. Note: *Credit is not given for PSY/GSS 216H and PSY/GSS 216*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Acquire a basic knowledge of human sexuality and the interaction of physiological, psychological and sociocultural processes on sexuality and behavior across the lifespan;
- Encourage critical analysis and synthesis of both the empirical literature and personal views and experiences on sexuality in the context of current social and cultural influences;
- Examine how diverse sexual belief systems created by race, ethnicity, class, gender, sexual orientation, age, and religion influence the expression of human sexuality in the individual, families, intimate relationships, and societies;

Demonstrate an understanding of all the major theoretical concepts in psychology of sexuality and how they are used to describe or understand human behavior;
Gain a better appreciation for the diversity of sexual practices and opinions;
Increase ability to communicate openly and effectively about issues related to human sexuality to gain a better understanding of self and others.

GSS 216H - Human Sexuality – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Diversity Requirement. Learn current information concerning biological, psychological and sociological aspects of human sexual functioning and related concerns. Prereq(s): *Eligibility for honors courses; PSY 111 or PSY 111H or permission of department chair.* Crosslisted: *Also offered as PSY 216/PSY 216H/GSS 216.* Note: *Credit is not given for GSS 216H and also PSY 216/PSY 216H.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Acquire a basic knowledge of human sexuality and the interaction of physiological, psychological and sociocultural processes on sexuality and behavior across the lifespan;
Encourage critical analysis and synthesis of both the empirical literature and personal views and experiences on sexuality in the context of current social and cultural influences;
Examine how diverse sexual belief systems created by race, ethnicity, class, gender, sexual orientation, age, and religion influence the expression of human sexuality in the individual, families, intimate relationships, and societies;
Demonstrate an understanding of all the major theoretical concepts in psychology of sexuality and how they are used to describe or understand human behavior;
Gain a better appreciation for the diversity of sexual practices and opinions;
Increase ability to communicate openly and effectively about issues related to human sexuality to gain a better understanding of self and others.

GSS 217 - Women of the Western World

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Study and analyze women's experiences, social roles and contributions to the development of Western society from ancient times to the 21st century. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as HIS 217; credit is not given for both GSS 217 and HIS 217.*

Course Outcomes

acquire a basic knowledge of human sexuality and the interaction of physiological, psychological and sociocultural processes on sexuality and behavior across the lifespan;
encourage critical analysis and synthesis of both the empirical literature and personal views and experiences on sexuality in the context of current social and cultural influences;
examine how diverse sexual belief systems created by race, ethnicity, class, gender, sexual orientation, age, and religion influence the expression of human sexuality in the individual, families, intimate relationships, and societies;
demonstrate an understanding of all the major theoretical concepts in psychology of sexuality and how they are used to describe or understand human behavior;
gain a better appreciation for the diversity of sexual practices and opinions;
increase ability to communicate openly and effectively about issues related to human sexuality to gain a better understanding of self and others.

GSS 218 - History of Women in America: 1607-Present

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Study the roles of women in America from the colonial period to the present. Explore and analyze the importance of work and family in women's lives. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as HIS 218; credit is not given for both GSS 218 and HIS 218.*

GSS 220 - Gender and Culture: Gender Roles in Cross-Cultural Perspective

3 credit hours - Three hours weekly; one term.

Examination of various cultures to understand how gender and gender roles are constructed and how they structure social

relationships. Course presents theoretical perspectives and empirical evidence from a variety of cultures, including pre-industrial, industrial, post-industrial societies and developing countries. Prereq(s): *GSS 101, SOC 111 or ANT 121 / SOC 121*. Crosslisted: *Also offered as SOC 220; credit is not given for both GSS 220 and SOC 220.*

GSS 221 - Psychology of Men

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Examines the factors that influence male behavior and masculine development. Topics include lifespan development, fathering, men's health, violence, education and relationships with emphasis on current psychological theories and research. Prereq(s): *PSY 111 or permission of department chair*. Crosslisted: *Also offered as PSY 221; credit is not given for both GSS 221 and PSY 221.*

Course Outcomes

Acquire knowledge of men's gender role identities and gender schemas

Illustrate and define gender role terminology that assesses the male experience

Assess theoretical perspectives regarding male gender role socialization

Understand the advantages that gender expectations produce for both men and women

Appraise the various historical trends that have arisen

Predict future directions in the field of psychology of men

Assess current contributions in the field

Describe the impact of peripheral issues such as physical health issues, potential mental health complexities and workplace dynamics

Identify specific health-related issues to men

Develop an understanding of the male experience in the workplace

Describe mental health concerns related to the stressors intrinsic to the male experience

Explain the origins and specific issues related to men and violence

Describe the dynamics involved in the issue of domestic violence

Develop an understanding of the dynamics of sexual assault and victimization

Demonstrate knowledge of the impact of ethnic identity in relation to the male experience

Analyze the cultural influences related to the experience

Evaluate the impact of ethnicity and social class in the lives of men

Demonstrate an understanding of relationship dynamics and sexuality in relation to the male experience

Describe the social development of men

Analyze the issues related to sexuality, sexual issues and sexual problems

Evaluate cross-cultural variations in male sexuality and relationships

GSS 222 - Psychology of Women

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Cover female development from childhood and adolescence through adulthood and old age. Study gender differences and stereotypes, sexuality, love relationships and violence against women. Develop a theoretical and practical understanding of the psychology of women. Crosslisted: *Also offered as PSY 222; credit is not given for both GSS 222 and PSY 222*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

introduce students to the scientific study of gender behavior and roles;

acquire knowledge of women's gender role identities and gender schemas;
 develop understanding and awareness of power and privilege associated with gender;
 articulate the main points related to social construction of gender and gender-related differences in behavior;
 explore some major psychological issues that concern women such as gender discrimination, social and biological determinants of behavior, gender stereotypes, sexuality, health issues, and violence against women;
 describe classic and current theories regarding the psychological development and socialization of girls and women;
 critically evaluate psychological theory and research examining gender-related differences in a variety of areas, including cognitive abilities and social behavior;
 describe the biological and psychological bases of relationship dynamics and sexuality, particularly as they relate to cultural constructions of gender;
 understand and articulate the interactive influence of age, race, ethnicity, sexual orientation, ability, and class on girls' and women's psychological development across the life-span;
 provide the student with a framework for self-exploration and self-understanding.

GSS 223 - Philosophy and Gender

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Learn philosophical themes, issues and problems relevant to gendered experiences in Western culture. Survey major feminist theories of the last 200 years that have helped to define and develop women's (and men's) understandings of themselves. Emphasizes ways in which factors such as class, ethnicity, sexual orientation and gender play roles in the constitution of gender identities and the challenges these pose in reference to community, solidarity and social change. Prereq(s): Eligibility for ENG 101/ENG 101A. Crosslisted: Also offered as PHL 223; credit is not given for both GSS 223 and PHL 223.

GSS 225 - Cultural Representations of Disability, Gender and Sexuality in the U.S.

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Explore the representations of disability in American popular culture. Analyze how gender and sexuality affect the representations of disability. Examine the connections between representations of oppressed groups in popular culture and the unequal distribution of economic, political and social power in the U.S. Prereq(s): Eligibility for ENG 101/ENG 101A. Crosslisted: Also offered as AMS 225 and SOC 225; credit is given for only one of the following: AMS 225, GSS 225 or SOC 225.

Course Outcomes

Demonstrate an understanding of cultural theory.
Demonstrate an understanding of the history of disability activism
Demonstrate an understanding of the history of disability representation.
Analyze cultural texts for messaging about disability, gender and sexuality.
Analyze the relationship between popular culture and social inequalities.

GSS 228 - Literature in English by Women

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Compare and analyze multicultural literature in English, written by women of diverse regions, cultures, races, sexualities, religions and classes. Explore the relationships between gender and literary form, content, production, evaluation, and interpretation, with attention to historical, social, cultural and political contexts, as well as literary analysis. Readings include poetry, prose and drama.

Prereq(s): ENG 101/ENG 101A or permission of department chair. Crosslisted: Also offered as GSS 228H, ENG 228, and ENG 228H; credit is given for only one of the following: GSS 228, GSS 228H, ENG 228 or ENG 228H. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify and explain theoretical approaches to literature developed by feminist literary scholars;
 Explain how gender, race, and class inform and influence individual writings by women and women's literary traditions;
 Identify and explain important works written by British and American women writers;
 Explain the relationship of the literature to its intellectual, social, cultural, and political backgrounds;

Analyze how women writers modify traditional literary forms, styles, and themes;
Write analytically about literature;
Practice close textual analysis through application of critical reading skills.

GSS 228H - Literature in English by Women – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Compare and analyze multicultural literature in English, written by women of diverse regions, cultures, races, sexualities, religions and classes. Explore the relationships between gender and literary form, content, production, evaluation, and interpretation, with attention to historical, social, cultural, and political contexts, as well as literary analysis. Readings include poetry, prose and drama. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A or permission of department chair.* Crosslisted: *Also offered as GSS 228, ENG 228 and ENG 228H; credit is given for only one of the following: GSS 228, GSS 228H, ENG 228 or ENG 228H.* Note: *Complete and present an honors capstone research project that extends beyond the classroom.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and explain theoretical approaches to literature developed by feminist literary scholars;
- Explain how gender, race, and class inform and influence individual writings by women and women's literary traditions;
- Identify and explain important works written by British and American women writers;
- Explain the relationship of the literature to its intellectual, social, cultural, and political backgrounds;
- Analyze how women writers modify traditional literary forms, styles, and themes;
- Write analytically about literature;
- Practice close textual analysis through application of critical reading skills.

GSS 280-299 - Special Topics in Gender and Sexuality Studies

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An in-depth examination of current issues related to women and to gender. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Geography

GEO 100 - Introduction to Geography

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Focus on the geographer's view of the interaction of people with their physical and human environments. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe basic concepts of geography, such as location, regions, scale, spatial interaction, and ecological relationships.
- Evaluate the main visual tools of geography.
- Discuss landform forces as a main element of physical geography.
- Describe weather and climate as main elements of physical geography.
- Discuss the main elements of human geography, including population, culture, economic geography, political geography, and urban geography.
- Evaluate the process of spatial interaction.
- Discuss types of resources, energy principles, energy use, and examples of pollution.
- Evaluate human impacts on the environment.

GEO 101 - Physical Geography

4 credit hours - Three hours lecture; two hours lab, weekly

This course meets the Biological and Physical Sciences General Education Requirement. Learn about environmental processes and the landscape patterns they produce on Earth. Explore characteristics of Earth's weather and climate systems, interior structure, earth materials, and landforms, along with the ways these support biological organisms. Integrate a geographic perspective to evaluate the interdependency of Earth and human systems. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe basic concepts and techniques of analysis used by physical geographers.
- Differentiate the physical principles and processes that control weather and climate patterns across time and space.
- Explain Earth's internal and surface processes that contribute to the continual formation and alteration of landforms.
- Interpret spatial distributions and dynamics of organisms and their environments.
- Analyze human-environment interactions and the observable consequences of these activities in physical landscapes.

GEO 102 - World Regional Geography

3 credit hours - Three hours weekly; one term

This course meets the Social and Behavioral Sciences General Education Requirement. Study major world regions from the viewpoints of people, natural environment, culture, and economic development in a globalized society. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Describe the concepts and regions in world geography.
2. Discuss important population and settlement features of the world, including urban structure and form, rural settlement types, population dynamics, population patterns, and population structure.
3. Describe the influence of cultural coherence and diversity in world regional geography.
4. Identify the geopolitical framework for studying world geography.
5. Compare and contrast economic and social development levels.
6. Discuss the changing global physical environment and how it influences people in where they live and how they carry on everyday activities.

GEO 103 - Cultural Geography

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Examine cultural practices as intimately woven elements of the spaces and places of everyday life through tracing how they operate in tandem with other political, economic, social, and ecological systems. Understand the application of geographic theories, both scientific and aesthetic, to rigorously explore how cultural practices continuously organize, distribute, and express the attitudes and beliefs of different cultural groups within the global human environment. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as GEO 103H. Credit is not given for GEO 103H and also GEO 103*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Discuss the major elements of culture, including population, language, religion, customs, political behavior, economic behavior, urbanization, and resources.
- Apply the themes of culture region, cultural diffusion, cultural ecology, cultural interaction and cultural landscape to the major elements of culture.
- Analyze the spatial distributions of the major elements of culture.
- Use maps to identify the major spatial patterns of culture.

GEO 103H - Cultural Geography

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Social and Behavioral Sciences General Education Requirement. Examine cultural

practices as intimately woven elements of the spaces and places of everyday life through tracing how they operate in tandem with other political, economic, social, and ecological systems. Understand the application of geographic theories, both scientific and aesthetic, to rigorously explore how cultural practices continuously organize, distribute, and express the attitudes and beliefs of different cultural groups within the global human environment. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A*. Crosslisted: *Also offered as GEO 103; credit is not given for both GEO 103 and GEO 103H*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Discuss the major elements of culture, including population, language, religion, customs, political behavior, economic behavior, urbanization, and resources.
- Apply the themes of culture region, cultural diffusion, cultural ecology, cultural interaction and cultural landscape to the major elements of culture.
- Analyze the spatial distributions of the major elements of culture.
- Use maps to identify the major spatial patterns of culture.

GEO 105 - Geography of the United States

3 credit hours - Three hours weekly; one term.

Learn about the physical, cultural and urban diversity of the United States by identifying and examining the patterns and processes that create regional landscapes. Prereq(s): *Eligibility for ENG 101/ENG 101A*.

GEO 107 - Geology of Maryland

3 credit hours - Three hours of lecture weekly; one term.

Learn the formation and evolution of the bedrock and landscapes of the main physiographic provinces of Maryland. Investigate the interactions of geologic processes through time that have produced Maryland's diverse landforms, drainage patterns, soils, and water and mineral resources. Recognize the geologic hazards of Maryland's past and present, and anticipate future hazards. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as PHS 107; credit is not given for both GEO 107 and PHS 107*. Note: *This course does not satisfy the curricular requirements for a laboratory science course.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

Summarize the formation and evolution of the main physiographic provinces of Maryland

- Classify observed landscapes into physiographic provinces.
- Summarize the boundaries and major topographic and geologic features for physiographic provinces in Maryland.
- Describe continuity of physiography with adjoining States.
- Use and interpret topographic maps.

Characterize the minerals, fossils, rocks, and rock deformation in Maryland

- Explain the composition and structure of geologically and economically important minerals.
- Distinguish between hand samples of geologically and economically important minerals.
- Explain igneous, sedimentary, and metamorphic processes and rock formations.
- Distinguish between hand samples of major igneous, sedimentary, and metamorphic rocks.
- Introduce geologically important fossil types and fossil collecting sites.
- Explain the process of dating the age of rocks, fossils, and geologic events
- Use the Geologic Time Scale to order geologic events.
- Interpret geologic structures as the result of forces that deform rock.
- Use and interpret geologic maps.

Study the formation and evolution of bedrock in Maryland.

- Summarize the theory of plate tectonics, and the origin and evolution of the ocean basins and continents.
- Describe the processes and products of weathering, erosion, sedimentation, and diagenesis
- Correlate the origin and distribution of igneous, sedimentary, and metamorphic rocks to plate tectonics: Precambrian and Paleozoic Maryland.
- Correlate the origin and distribution of igneous, sedimentary, and metamorphic rocks to plate tectonics: Mesozoic and Cenozoic Maryland.
- Correlate the origin and distribution of sedimentary rocks to plate tectonics: Pleistocene and Holocene Maryland.

Correlate geologic materials, structures, and processes with drainage patterns and topography in Maryland.

- Explain and recognize structural and compositional controls on surface and subsurface drainage.
- Explain and recognize structural and compositional controls on landforms.
- Examine the effects of sea level changes.
- Examine the effects of continental glaciation.

Characterize the water, soil, mineral, rock, and energy resources in Maryland.

- Describe the hydrologic cycle.
- Explain stream and groundwater processes.
- Study groundwater as a resource.
- Study soils as a resource.
- Study minerals as a resource.
- Study rock products as a resource.
- Examine conventional and nontraditional energy resources.

Recognize the geologic hazards (ancient, present, and future) in Maryland

- Explain mass movement processes and associated landscapes.
- Explain expanding soils and soil creep, and associated dangers.
- Explain collapse and subsidence processes and associated landscapes.
- Explain flash flooding and associated dangers.
- Explain coastal hazards and associated disasters.
- Describe ancient and probable future catastrophes in Maryland.
- Assess ways to predict, prevent, control, and/or avoid geologic hazards in Maryland.

GEO 240 - Introduction to Geographic Information Systems

3 credit hours - two hours lecture, one hour of directed lab

This course meets the Technology Requirement. Utilize geospatial technology and apply foundational concepts in Geographic Information Systems (GIS) to collect, store, analyze, and display natural and social science data. Demonstrate knowledge and application of fundamental cartographic principals and analytical methods using industry standard hardware and software. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the fundamental concepts of Geographic Information Systems and Geospatial Technology
- Demonstrate proficiency in the basic functions of geospatial software and hardware
- Demonstrate basic proficiency in cartographic design principles
- Explain and describe spatial analysis techniques
- Discuss fundamental concepts and use of remotely sensed data
- Identify and demonstrate uses of Geographic Information Systems and Geospatial Technology to solve problems and convey information

GEO 242 - Foundations of Cartographic Design

3 credit hours - Two hours of lecture and one hour of lab weekly; one term

Produce digital and hardcopy maps through applying concepts and theories of Cartography, the art and science of map-making. Using Geographic Information Systems (GIS) and other technologies, learn how to make effective maps and data visualizations for a variety of audiences and purposes. Gain an awareness of the historical and contemporary relationship between maps and society while developing customized visualizations of human and environmental phenomena. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Note: *Students are recommended to take GEO 240 prior to or concurrently with GEO 242.*

Course Outcomes

- Categorize and describe different types of maps and provide examples of how they are used.
- Identify and select an appropriate geographic referencing system, data model, map scale, and symbolization to communicate geographic information for a given purpose.
- Apply cartographic principles in the design and production of hard copy and digital maps.
- Construct ancillary data visualizations, such as charts, graphs, and diagrams, and incorporate these in the design of map products.
- Analyze spatial phenomena through effective use of cartographic visualization technologies.

GEO 244 - Fundamentals of Remote Sensing

3 credit hours - Two hours of lecture and one hour of lab weekly; one term

Explore data collected with remote sensing technologies, such as Earth-orbiting satellites, to investigate landscapes and natural phenomena. Develop an understanding of the history of remote sensing and Earth observation while building a practical skill set for processing and analyzing remotely sensed data with Geographic Information Systems. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Note: *Students are recommended to take GEO 240 prior to or concurrently with GEO 244.*

Course Outcomes

Describe the physical principles and basis of remote sensing

Differentiate and describe foundational concepts in remote sensing, including data resolution, sensor systems, and accuracy assessment

Evaluate and select appropriate data sources for remote sensing applications

Interpret, analyze, and summarize the results of applied remote sensing workflows

Describe technologies, applications, and trends of remote sensing

GEO 280-299 - Special Topics in Geography

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An intensive study of current or specialized themes or topics of geographical interest. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Health

HEA 100 - Assessment and Theory of Fitness and Health

3 credit hours - Three hours weekly; one term.

This course meets the Wellness Requirement. Create a physically active, individualized exercise program with guidance from the course instructor. Use cardiovascular and weight training equipment in the college fitness center to improve and maintain health and wellness. Conduct pre and post-assessments to evaluate physical fitness. Examine the topics of physical activity, nutrition, weight management, stress, cardiovascular health and related wellness behaviors. Investigate the role of each dimension's impact on lifelong wellness and health, behavior change strategies as they relate to health promotion efforts. Lab fee \$30. Physical education fee \$6.

Note: *Credit is not given for both HEA 100 and HEA 114. HEA 100 is not open to students under the age of 16 years. Students will be required to complete an Accidental Injury Waiver Form and PAR-Q on the first day of class. Students may not participate in the course until the Accidental Injury Waiver Form and PAR-Q have been provided to the instructor. A \$6 physical education fee per term is charged to students enrolled in HEA 100.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: All terms

Course Outcomes

Upon the successful completion of this course, students will be able to:

Examine the dimensions of wellness as they relate to lifestyle behaviors.

Analyze pre and post results from fitness assessments.

Design a personal exercise program using national health and fitness guidelines.

Participate in a safe and effective exercise program.

Evaluate the credibility of health and wellness information to promote positive self-care.

Assess personal health behaviors and create goals to promote individual wellness.

Identify and demonstrate positive behavior strategies necessary to reduce risk for chronic disease and promote optimal health.

Compare and contrast the impact of diversity on risk factors for common chronic diseases.

HEA 101 - Foundations of Health, Exercise and Sport

3 credit hours - Three hours weekly; one term.

Examine the disciplines and subdisciplines in exercise science. Discuss the scientific basis that underlies health, exercise, and sport. Collect, analyze, and interpret laboratory data related to the diverse functions of the human body. Identify career opportunities within exercise science and allied health, including requirements for advanced study and appropriate coursework for the profession.

Note: *This course does not fulfill the General Education Wellness requirement for AACC.* Location(s) Typically Offered: Arnold Main

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AACC 2024-2025 Print Catalog

(Refer to www.catalog.aacc.edu for most updated 2024-2025 catalog available)

Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Examine the disciplines and sub-disciplines in health, exercise and sport.
- Apply fundamental concepts of human anatomy, physiology and kinesiology to applications in health, exercise and sport.
- Demonstrate laboratory techniques to collect, analyze, and interpret data from course activities related to the diverse functions of the human body.
- Analyze primary research articles in the literature and discuss the results in relation to class topics.
- Identify potential careers in exercise science related fields and identify the requirements needed for advanced study.

HEA 111 - Personal and Community Health

3 credit hours - Three hours weekly; one term.

This course meets the Wellness Requirement. Identify the dimensions of wellness and the various factors that promote optimal health for individuals and their communities. Describe the current and emerging issues in health promotion and disease prevention and evaluate evidenced-based methods to control risk factors in diverse populations. Examine topics and health behavior strategies to optimize and enhance quality of life. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Examine the dimensions of wellness and the issues influencing aspects of each.
- Identify and demonstrate positive behavior strategies to reduce the risk for disease and promote optimal health.
- Assess personal health behaviors and create goals to promote individual wellness.
- Compare and contrast the impact of diversity on risk factors for disease and barriers to developing optimal health.
- Evaluate resources that promote and influence health and wellness of the individual and community.

HEA 113 - Women's Health

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. This course meets the Wellness Requirement. Learn the physical and mental health events that confront women in our society. Investigate disease and stress ailments particular to women in our ever-changing world.

Crosslisted: Also offered as GSS 113; credit is not given for both HEA 113 and GSS 113. **Location(s) Typically Offered:** Arnold Main Campus (MC) and Online (OL) **Term(s) Typically Offered:** All terms

Course Outcomes:

Upon successful completion of this course, the student will be able to:

1. Examine societal issues that affect women's health.
2. Develop skills for changing and improving one's health status.
3. Explain reproductive structure and function of the male/female system.
4. Explain pregnancy health and risk.
5. Explain risky health behaviors as they relate to wellness.
6. Describe dimensions of wellness as they relate to women's health.
7. Describe health conditions specific to women.
8. Apply knowledge of personal safety, self esteem and body image to improve overall wellness.

HEA 114 - Components of Personal Fitness and Wellness

3 credit hours - Three hours weekly; one term.

This course meets the Wellness Requirement. Examine the topics of physical activity, nutrition, weight management, stress, cardiovascular health and related wellness behaviors. Investigate the role of each dimension's impact on lifelong wellness. Identify and evaluate behavior change strategies as they relate to health promotion efforts. Note: *Credit is not given for both HEA 114 and HEA 100.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Examine the dimensions of wellness as they relate to lifestyle behaviors.
2. Apply health and wellness information and standards to promote positive self-care.
3. Assess personal health behaviors and create goals to promote individual wellness.
4. Identify and demonstrate positive behavior strategies necessary to reduce risk for chronic disease and promote optimal health.
5. Design a personal physical activity program using national health and fitness guidelines.
6. Analyze the impact of diversity on risk factors for common chronic diseases.

HEA 115 - Health Implications of Violence

3 credit hours - Three hours weekly; one term.

Formerly Personal Safety Issues This course meets the Wellness Requirement. Examine theories and concepts of violence and abuse and the effects on the social, emotional, physical, and cognitive development of the individual. Describe and evaluate the historical overview of legal and ethical issues regarding violence and abuse and the impact on the individual and society. Explore topics including awareness and prevention of violence around the world, neglect, gun control, exploitation, stalking, and personal safety issues. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Discuss the historical background and impact of violence on human rights.
- Discuss various forms of violence, their global impact, and their influence on public health.
- Explain the relationship between violence and abuse related to human development.
- Interpret and evaluate research, data, and theoretical concepts related to violence, abuse, and personal safety issues.
- Describe the legal system, interventions, and resources available for the individual and society.

HEA 117 - Healthy Aging For Women

3 credit hours - Three hours weekly; one term.

This course meets the Wellness Requirement. Examine the health and wellness related changes of women as they age. Investigate exercise, nutrition, menopause, osteoporosis, cardiovascular disease, female cancers, mental health, and gynecological health concerns and examine how women can influence these age-associated changes to live a healthy life. Crosslisted: *Also offered as GSS 117; credit is not given for both HEA 117 and GSS 117.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the dimensions of wellness and analyze their impact on women's health as they age.
- Evaluate and cite credible resources related to women's health and aging.
- Compare and contrast healthy and risky lifestyle behaviors.
- Explain how a lifestyle that includes exercise, proper nutrition and stress management contributes to healthy living throughout the lifespan and its effect on future generations.
- Analyze research on the biology of aging.
- Identify lifestyle modifications for optimal health and wellness.

HEA 120 - Stress, Science and Well-Being

3 credit hours - Three hours lecture weekly; one term.

This course meets the Wellness Requirement. Explore an integrative (mind, body, emotions and spirit) approach to reducing stress and improving well-being. Examine the physiological and psychological effects of stress and its impact on wellness. Investigate the relationship between stress and disease. Emphasis is placed on exploring and practicing a variety of evidence-based stress reduction strategies. As a final project, students create a comprehensive personal self-care plan to increase the experience of optimal well-being. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Assess and describe the impact of stress on all dimensions of wellness.
- Explain the General Adaptation Syndrome and analyze the relationships between chronic stress and various disease states

Describe and explain the biology of stress, to include the physiological and neurological effects of stress on the body and mind.
 Identify and examine current theories and research in positive psychology to mitigate stress and improve overall well-being.
 Describe emotional responses to stress and apply strategies to increase positive emotions.
 Apply theoretical concepts to one's own experience, including culture, gender, socio-economic status, race and social support, to understand stress and its impact on health.
 Identify and apply integrative, evidence-based stress management techniques and coping strategies to manage personal stressors.
 Design and develop a personal self-care plan that incorporates coping skills and relaxation techniques to increase the experience of optimal well-being.

HEA 137 - Weight Management: Utilizing Healthy Approaches to Diet and Physical Activity

1 credit hour - One hour of lecture weekly; one term.

Introduces students to the concepts of energy balance, healthful eating patterns and physical fitness for healthy living. The course examines many of the biological and environmental theories associated with weight management and reviews current research in this area. Emphasis is also placed on physical fitness compatible with the achievement and maintenance of a healthy body weight. Popular diet programs will be reviewed and evaluated with regard to weight management and overall health impact. Crosslisted: *Also offered as BIO 137; credit is not given for both HEA 137 and BIO 137.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Winter and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Discuss the genetic and biological influences on body weight in humans

- describe three examples of genetic variations in humans that may impact body weight
- defend the premise that biology and genetics plays a role in weight management using a research based argument.

Identify the means of assessing weight, body fat and physical fitness

- Calculate BMI
- Discuss limitations of BMI as an indicator of health risk
- Measure waist circumference
- Assess a person's health risk based on BMI and waist circumference
- Identify means of measuring percent body fat.
- Describe several means of assessing the various components of physical fitness

Identify strategies for overcoming many of the environmental triggers for excess body fat.

- Recognize the discrepancies between popular portion sizes and appropriate portion sizes for a variety of foods
- Analyze activities that lead to weight gain
- Identify opportunities to modify activities in order to reduce the likelihood of overeating
- Recognize the value of record keeping as a weight management tool
- Identify emotions that can trigger excess food consumption
- Identify other strategies besides overeating that can be used to address emotions
- Recognize barriers to physical activity
- Describe means of overcoming barriers to physical activity

Construct a basic fitness program appropriate for an overweight or obese person

- Identify the basic components of a physical fitness regime
- Use the above assessment tools to individualize a fitness program for a client
- Identify challenges commonly faced by obese clients as they pursue a physical fitness program
- Incorporate knowledge about challenges faced by obese persons into the fitness plan for a client.
- Utilize appropriate tools to assess progress in a person following a fitness regime.

Develop a healthful diet plan for weight loss in accordance with an individual's unique physical and emotional characteristics.

- Identify the components of a healthy diet
- Construct a healthy diet that can help achieve the goal of optimal weight management

Carefully critique popular literature related to physical fitness and weight loss.

- Recognize fallacies and biases related to physical fitness and weight management in the popular press
- Identify sound sources of information addressing body weight related issues

Analyze dietary intakes of popular weight loss programs in terms of appropriateness for healthful weight management and overall health.

- Describe the components of several popular weight loss diets

Group weight loss diets based on common recommendations and calorie distributions
Analyze popular diet regimes in terms of likelihood to lead to successful weight loss, overall impact on health and likelihood to result in permanent healthful weight management.
Identify the behaviors that correlate best with long term success related to weight management.

HEA 138 - Nutrition for Fitness and Sport

1 credit hour - One hour of lecture weekly; one term.

Introduces the student to current dietary guidelines appropriate for a healthy and physically active lifestyle. Explores the nutritional needs of physically active individuals, including recreational as well as competitive athletes. The role of each nutrient is reviewed, with emphasis on their utilization during exercise and recovery. Dietary modifications to optimize performance during different types of physical activity also will be discussed. A brief review of scientific data regarding ergogenic aids also will be presented.

Crosslisted: *Also offered as BIO 138; credit is not given for both HEA 138 and BIO 138.* Location(s) Typically Offered: Online (OL)

Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Describe current guidelines regarding the intake of nutrients and performance of physical activity.

Describe current USDA guidelines for dietary intake

Describe current ACSM guidelines for exercise and fitness

Differentiate between functions of the energy nutrients vs. functions of macronutrients.

Identify the six classes of nutrients

Categorize macro and micronutrients

Compare general functions of energy nutrients vs micronutrients

Evaluate the major nutrients and food groups in terms of impact on health.

Contrast the body's use of fuel at rest, during aerobic activity and during anaerobic exercise.

Identify the main sources of fuel available to the body

Explain changes in ratio of fuel utilization during rest, aerobic activity and anaerobic activity

Identify strategies for replacing spent fuel sources in the body after exercise and during recovery

Explain the importance of proper hydration during exercise and recovery and detail strategies to achieve optimal hydration.

List the functions of water in the body.

Describe routes of intake and loss that determine fluid balance in the body.

Detail approaches to achieve and maintain optimal hydration before, during, and after exercise.

Construct diet plans appropriate for different types of athletes

Calculate energy and nutrient needs of a variety of athletes

Elaborate eating plans to meet a variety of athletes' nutritional needs.

Identify and include dietary components that are required for specific athletes' recovery needs.

Evaluate the effectiveness of selected ergogenic aids on athletic performance. Construct diet plans appropriate for different types of athletes

Identify some of the most popular ergogenic aids used by recreational and elite athletes.

Gather reliable information on the effects, safety and recommended use of ergogenic aids.

Assess the utility of these types of aids for general use.

HEA 150 - Advanced First Aid, CPR and AED

3 credit hours - Three hours weekly; one term.

Formerly First Aid and Safety- CPR This course meets the Wellness Requirement. Examine the appropriate intervention skills to respond to emergencies such as recognition, access, assessment and management until more advanced personnel arrives. Identify and successfully demonstrate the components of cardiopulmonary resuscitation (CPR) and automatic defibrillator device (AED) and advanced first aid by a first responder. Successful completion of the course prepares students to take the Red Cross certification exam.

Lab fee \$35. Note: *Credit is not given for both EMT 104 and HEA 150.* Location(s) Typically Offered: Arnold Main Campus (MC)

Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Define emergency care terminology commonly used in first aid, CPR and AED.
Describe roles and responsibilities of a first responder.
Identify practices that promote wellness, safety and prevention of conditions or events requiring the use of first aid, CPR and AED techniques.
Recognize the signs and symptoms of various illnesses and injuries that require CPR/AED and advanced first aid.
Describe how to properly assess and provide emergency care for victims of trauma and sudden illness including necessary communication skills.
Describe and successfully demonstrate intervention skills such as CPR/AED, airway maintenance, bleeding control, immobilization and personal protection.

HEA 230 - Personal Trainer Fundamentals

4 credit hours - Five hours weekly; one term.

Explore the principles of exercise science and learn how the body responds to physical training. Apply knowledge of physiological adaptations and response to exercise to design training programs for clients, students or athletes to help them achieve their sports and fitness goals. Examine the physiological assessments used to evaluate the components of fitness, including posture, flexibility, balance, core function, cardiorespiratory fitness and muscular strength/endurance. Learn how to facilitate rapport, adherence, self-efficacy and behavior change in clients. Lab fee \$15. Prereq(s): *HEA 101 or permission of the Academic Chair*. Note: *Successful completion of course prepares student to sit for a nationally accredited Personal Trainer Exam. Fees for the exam will be the responsibility of the student.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain key anatomical structures that are relevant to exercise science, including parts of the skeletal, muscular, nervous, digestive and endocrine systems.
- Explain and apply the major principles of exercise science, including muscle physiology and cardiovascular adaptations to training.
- Demonstrate and perform various methods of assessing cardiovascular fitness, muscular strength, muscular endurance, flexibility and balance.
- Apply physiological principles and various methods of training to develop cardiovascular fitness, muscular strength and/or endurance and flexibility.
- Demonstrate the ability to individualize exercise programming for the apparently healthy adult and special populations.
- Demonstrate the proper use of commercial fitness equipment, proper exercise technique and form, and appropriate spotting techniques for clients.
- Utilize information attained in a health screening to evaluate clients for safe participation in an exercise program.
- Utilize results of fitness assessments to design safe and effective exercise programs based on client needs and goals.
- Explain the relationship between nutrition and physical wellness/performance and be able to identify areas of improvement in a client's nutritional intake.
- Describe behavior change strategies and methods used to enhance and maintain motivation to exercise.
- Describe and analyze major health conditions and injuries as they are affected by exercise.
- Explain current issues from the media that pertain to health and be able to articulate the significance of each issue from a physiological perspective.
- Identify and describe the role and responsibilities of a certified personal trainer.

HEA 231 - Health Coach

3 credit hours - Three hours weekly; one term.

Explore techniques and skills needed to motivate, encourage and inspire individuals to make healthy living an integral part of their lifestyle. Intended for fitness, wellness, health care, human resources and allied health professionals who want to make a positive impact in the way their clients/patients live. Topics include fitness, screening and assessment, program design and implementation, nutrition, behavior modification, legal/ethical responsibilities and research that reflects up-to-date information in vastly changing fields. Note: *Successful completion of the course prepares students, in part, to sit for the American Council on Exercise (ACE) Health Coach Examination. Fees for the ACE exam will be the responsibility of the student.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes:

Upon successful completion of the course, students will be able to:

1. Apply effective communication strategies for health coaching, including building rapport and connecting with clients.
2. Explain basic nutritional and physiological principles and apply them when implementing behavior-change and weight-management programs with clients.
3. Collect and analyze important behavioral, health, and lifestyle assessment data.
4. Apply various methods for developing and implementing healthy eating strategies and exercise plans based on client assessment data.
5. Demonstrate effective approaches for modifying behavior-change programs based on client needs and for promoting program adherence.
6. Recognize the role of the coach as it relates to legal and ethical issues and professional responsibility.

HEA 280-299 - Special Topics in Health and Wellness

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In-depth study of contemporary personal and community health issues to meet the ever-changing needs of students in public health and wellness. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

HEA 295 - Care and Prevention of Athletic Injuries

3 credit hours - Three hours weekly; one term.

Learn theoretical and practical methods of preventing and treating injuries, techniques of taping and bandaging, and use of rehabilitative methods. Understand the mechanisms of injury, strategies for prevention, and techniques to rehabilitate an athlete or client following injury. Lab fee \$15. Prereq(s): *HEA 101 or permission of the academic chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, winter, and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Apply anatomical and medical terminology commonly used in athletic training and sports medicine.
2. Describe mechanisms and extent of injuries common in physical activity, sports, and athletics.
3. Recognize the signs and symptoms of various athletic injuries and illnesses.
4. Identify factors that predispose an athlete to injury and utilize strategies to minimize the risk of injury during physical activity.
5. Describe and demonstrate proper treatment, care, and/or rehabilitation techniques for athletic injuries.
6. Demonstrate skills in taping, splinting, bandaging, and wrapping techniques for treatment and management of athletic injuries.

Health Information Technology

MDC 101 - Introduction to Medical Coding

3 credit hours - Three hours lecture weekly; one term.

Explore the medical coding process as a fundamental part of the complex health care environment and delivery system. Analyze the various areas of the coding process, the role that coding has in reimbursement, and its impact on the health care system. Identify and understand the importance of compliance and ethical issues that arise in the medical coding profession. Lab fee \$150. Prereq(s): *Acceptance into the Medical Coding Certificate Program with a grade of C or better in each required prerequisite course, or permission of the program coordinator.* Coreq(s): *MDC 103 (formerly HIT 217) and MDC 105 (formerly HIT 218).* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Define the coding process.
- Explain coding compliance and implement a compliance plan.
- Define the Standards of Ethical Coding and ethical violations, like fraud and abuse.
- Define the role and importance of a coding professional within the health care system.
- Understand reimbursement in various health care arenas.
- Apply coding technology in a virtual lab experience.

MDC 103 - Introduction to ICD Coding

3 credit hours - Three hours lecture weekly; one term

Formerly HIT 217 - Introduction to ICD Coding Learn the basic coding guidelines using the current ICD coding classification system. Apply diagnostic and procedural codes, validating coding accuracy using clinical information found in the health record. Apply and promote ethical coding standards while adhering to current regulations and established guidelines in code assignment. Prereq(s): *Acceptance into the Medical Coding Certificate Program or permission of the program coordinator*. Coreq(s): *MDC 101 and MDC 105 (formerly HIT 218)*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Correctly navigate the ICD-10-CM & PCS manual
- Identify the principal diagnosis
- Identify secondary diagnosis
- Identify diagnosis present on admission
- Apply diagnosis codes according to current guidelines

MDC 105 - Introduction to CPT/HCPCS Coding

3 credit hours - Three hours weekly; one term.

Formerly HIT 218 - Introduction to CPT/HCPCS Coding Apply the basic coding guidelines of the Current Procedural Terminology (CPT) nomenclature. Apply CPT/HCPCS codes validating coding accuracy using clinical information found in the health record. Apply and promote ethical coding standards while adhering to current regulations and established guidelines such as the National Correct Coding Initiative. Prereq(s): *Acceptance into the Medical Coding Certificate Program or permission of the program coordinator*. Coreq(s): *MDC 101 and MDC 103 (formerly HIT 217)*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Recognize the symbols used in the CPT manual and identify the content of the CPT appendices.
- Locate the terms in the CPT and HCPCS indexes.
- Demonstrate the ability to code E/M code.
- Demonstrate the ability to assign CPT and HCPCS codes.
- Differentiate between a new and an established patient and an inpatient and outpatient.

MDC 201 - Advanced Medical Coding

3 credit hours - Three hours weekly; one term.

Formerly HIT 221 - Advanced Coding Apply ICD diagnostic and procedural coding and CPT/HCPCS coding to higher level case scenarios. Practice the application of diagnosis and procedure codes validating coding accuracy using clinical information found in the health record. Apply and promote ethical coding standards while adhering to current regulations and established guidelines in code assignment. Demonstrate encoder software and practice applications. Prereq(s): *MDC 101, MDC 103 (formerly HIT 217), and MDC 105 (formerly HIT 218), with a grade of C or better in each course; or permission of the program coordinator*. Coreq(s): *MDC 203 (formerly HIT 222) and MDC 275 (formerly HIT 275)*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Evaluate health record documentation and validate diagnosis and procedure coding accuracy using clinical information found in the health record.
2. Resolve discrepancies between coded data and supporting documentation.
3. Apply the appropriate coding conventions when coding a disease or procedure and determine the proper code(s) and DRG assignment.
4. Demonstrate the ability to assign CPT and HCPCS codes.
5. Perform Evaluation and Management Coding.
6. Demonstrate the ability perform Evaluation, Management Coding and code ICD-10-PCS codes.

MDC 203 - Reimbursement Methodologies

3 credit hours - Three hours weekly, one term.

Formerly HIT 222 - Reimbursement Methodologies Discuss health care reimbursement systems, reimbursement methodologies, and payment processes throughout the health care industry. Examine the complex financial systems within today's health care environment and provide an understanding of the basics of health insurance, public funding programs, managed care contracting, and how services are paid. Prereq(s): *MDC 101, MDC 103 (formerly HIT 217), and MDC 105 (formerly HIT 218) with a grade of C or better in each course; or permission of the program coordinator.* Coreq(s): *MDC 201 (formerly HIT 221) and MDC 275 (formerly HIT 275).* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the characteristics of health care reimbursement methods.
- Define the terms coding compliance and reimbursement.
- Explore the provisions and functioning of health care insurance plans, managed care reimbursement, Medicare and Medicaid.
- Compare and contrast specifics of both Inpatient Prospective Payment systems and Outpatient Prospective Payment systems.
- Define the components of revenue cycle management.
- Define and flowchart the recovery audit contractor process and discuss the components of a chargemaster.

MDC 275 - Medical Coding Practicum

2 credit hours - 90 hours virtual practicum experience.

Formerly HIT 275 - Medical Coding Practicum Demonstrate practical skills and knowledge in coding principles needed in medical offices, clinics, hospitals, and insurance companies. Students will observe and perform the coding of health data, the retrieval and analysis of medical records, the abstraction and interpretation of health data, and the management of health data. Lab fee \$120.

Prereq(s): *MDC 101, MDC 103 (formerly HIT 217), and MDC 105 (formerly HIT 218) with a grade of C or better in each course; or permission of the program coordinator.* Coreq(s): *MDC 201 (formerly HIT 221) and MDC 203 (formerly HIT 222).* Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe elements of communication, including medical terminology in a professional health care setting.
- Describe ICD sections in the manual.
- Define modifiers and the resource-based relative value scale.
- Differentiate between HCPCS levels I - III.
- Describe the importance of national credentialing and delineate the elements/requirements for AAPC national certification.
- Demonstrate competency in clinical coding in health and medical areas and describe the reasoning behind the proper coding sequence in a virtual practicum experience.

History

HIS 111 - Ancient and Medieval Western Civilizations

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. Explore societal changes and continuities in structure, thought, government, economics, war and culture through readings, critical thinking and writing, from antiquity through the Renaissance. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe diversity in, and interaction of, European cultures
- Recognize change and continuity over time
- Describe how concepts of gender have changed over time.
- Explain how gender roles interact with societal contexts.
- Identify the roles of religion in society
- Explain varied theology: paganism, Catholicism, Islam, Protestantism
- Illustrate class structures and the social impact thereof

Identify political systems: monarchy, oligarchy, republics
Classify economic and labor systems
Appraise the argument and evidence of historical literature
Evaluate examples of professional historical writing

HIS 112 - Early Modern and Modern Western Civilizations

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. Explore societal changes and continuities in structure, thought, government, economics and culture through readings, critical thinking and writing from the Renaissance to the present. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Note: *HIS 111 is not a prerequisite for this course*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Demonstrate a factual and interpretative understanding of the following trends, events, documents, and methods from the Renaissance to the present related to the following abilities:

Identify the social and political impact of the supposed Reformation
Appraise the nature and impact of science and technology
Describe the political and social structure of the *Ancient Regime*
Analyze the nature and impact of the Enlightenment and the Age of Reason
Identify and evaluate the causes and processes of political and social revolutions
Analyze the rise of the Nazism
Identify the motives and outcomes of early modern and modern war
Understand that art reflects the society of its time
Describe Marxism in the ideal versus communism in practice
Relate various forms of imperialism to militarism and nationalism
Analyze the role of ideology and religion in the modern world

HIS 113 - World Civilizations to 1500

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. Explore the past and its impact on the present and the future. Examine global history from pre-history to the Renaissance and the Age of Discovery to evaluate the networks and interactions that connected Europe, Asia, and Africa. Analyze societal changes and continuities in culture, politics, economics, and diplomacy. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Apply methods of historical analysis and research to understand the past in its proper context.
Identify key historians and analyze their historical theories.
Evaluate differing historical theories by applying them to the human condition.
Write and defend a persuasive argument.

HIS 114 - World Civilizations Since 1500

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. Explore the past and its impact on the present and the future. Examine global history from the Reformation to World War II to evaluate the networks and interactions that connected Europe, Asia, Africa, and the Americas. Analyze societal changes and continuities in culture, politics, economics, and diplomacy. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Apply methods of historical analysis and research to understand the past in its proper context.
2. Identify key historians and analyze their historical theories.
3. Evaluate differing historical theories and apply them to the human condition.
4. Write and defend a persuasive argument.

HIS 142 - Introduction to Latin American History

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts and Humanities General Education Requirement. Examine Latin American history from the pre-Columbian period through colonization and the Age of Independence (1810-1825) to 20th-century revolutions and recent political, economic, and social trends. Analyze major political and economic events and social and intellectual forces that affected the origins and development of the Latin American states and region. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Evaluate and synthesize primary and secondary sources to compose essays pertaining to Latin American history.
2. Explain governing institutions and the ideas, issues and history that shaped the development of the Latin American region through the analysis of oral and written accounts of the past and present.
3. Discuss the general process of conquest, colonialism and independence of the Latin American region and its influence on the major economic, political and social features of that community.
4. Describe the issues that divided and united the societies and nations within the Latin American region and discuss the revolutionary ideologies that facilitated change in the Latin American region.

HIS 211 - United States History through the Civil War

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. Explore American politics, cultures, economics and the interaction of people of different classes, races and genders through reading, critical thinking and writing, from colonization through 1865. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as HIS 211H; credit is not given for both HIS 211 and HIS 211H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Analyze the philosophic underpinnings of the colonial and antebellum American experience and the interrelationships of ideas and events in shaping preindustrial American society.
- Analyze the impact on America and the world as the United States emerged from colonialism and became a regional power in the 18th and 19th centuries.
- Describe major events, concepts, people and developments in the U.S. society from the Colonial Period to Reconstruction.
- Explain primary sources, the concept of causality, and the importance of evidence and interpretation in colonial and antebellum American history.
- Analyze colonial and antebellum issues based on primary sources evidence.

HIS 211H - United States History through the Civil War – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. This course meets the Social & Behavioral Sciences General Education Requirement. Explore American politics, cultures, economics and the interaction of peoples of different classes, races and genders through reading, critical thinking and writing, from colonization through 1865 in an honors seminar environment of readings and extensive discussion. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A*. Crosslisted: *Also offered as HIS 211; credit is not given for both HIS 211H and HIS 211*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- 1: Analyze and discuss the philosophic underpinnings of the colonial and antebellum American experience and the interrelationships of ideas and events in shaping preindustrial American society.

- 2: Analyze the impact on America and the world as the United States emerged from colonialism and became a regional power in the 18th and 19th centuries.
- 3: Describe major events, concepts, people and developments in the U.S. society from the colonial period to Reconstruction.
- 4: Explain primary sources, the concept of causality, and the importance of evidence and interpretation in colonial and antebellum American history
- 5: Analyze colonial and antebellum issues based on primary sources evidence
- 6: Discuss social diversity in colonial and antebellum American history.
- 7: Analyze the role of government, major legislation and Supreme Court decisions in colonial and antebellum American history.

HIS 212 - United States History Since the Civil War

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. Explore American politics, cultures, economics and the interaction of class, race and gender through reading, critical thinking and writing, from the Civil War to the present. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. To analyze the important concepts, trends and events in American history.
2. To present a spectrum of different ideologies that have appeared in American history.
3. To dispel some myths and fallacies that have appeared in our nation's past.
4. Explain primary sources, the concept of causality and the importance of historical interpretation.
5. Use the past as a tool to understand today's complex and diverse American society.

HIS 214 - African American History

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Evaluate significant contributions made by African Americans to the American past. Gain oral and visual impressions of important issues and personalities of our nation's African American heritage through media presentations. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as AFA 214; credit is not given for both HIS 214 and AFA 214.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Demonstrate an ability to carry out historical analysis and research.
- Recognize the major historical contributions and the notable black Americans associated with them.
- Critically evaluate competing historical theories in terms of their respective claims about the human condition.
- Defend a position of your own using the argumentation/writing skills developed in this class.
- Contrast the parallels of historical events with current events as related to African American History.

HIS 215 - Civil Rights Era

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Study the Civil Rights movement from 1954 to present. Explore and analyze the tactics and philosophy of non-violence and civil disobedience through the writings and actions of such leaders as Martin Luther King Jr., Malcolm X and Fanny Lou Hamer. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

HIS 217 - Women of the Western World

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Study and analyze women's experiences, social roles and contributions to the development of Western society from ancient times to the 21st century. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as GSS 217; credit is not given for both HIS 217 and GSS 217.*

HIS 218 - History of Women in America: 1607-Present

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Study the roles of women in America from the colonial period to the present. Explore and analyze the importance of work and family in women's lives. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as GSS 218; credit is not given for both HIS 218 and GSS 218*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

HIS 219 - History of Maryland

3 credit hours - Three hours weekly; one term.

Study the history of Maryland from the 17th century to the present. Explore and analyze the Colonial and Civil War eras, as well as Maryland's unique role as a buffer between the urban/industrial north and the rural/agrarian south. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

HIS 220 - The Civil War Era

3 credit hours - Three hours weekly; one term.

Study and analyze the major issues leading to the Civil War, battles and controversies during the war, the manner of Union reconstruction after the war, as well as various political and military leaders of the period. Attend field trips to major battlefields of Gettysburg and Antietam. Prereq(s): *Eligibility for ENG 101/ENG 101A*.

HIS 221 - The Battles of Gettysburg and Antietam

3 credit hours - Three hours weekly; one term.

Study and analyze the two most significant battles of the Civil War. Critique strategies used, individuals involved and the effects of these battles on the war. Attend two Saturday field trips to the respective battlefields. Lab fee \$30. Prereq(s): *Eligibility for ENG 101/ENG 101A*.

HIS 223 - History of Modern Russia

3 credit hours - Three hours weekly; one term.

Study the historical development of modern Russia emphasizing the period since 1800. Explore and analyze political and diplomatic development of Russian and Soviet governments, including recent economic, social and cultural developments. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

HIS 224 - History of Modern Europe

3 credit hours - Three hours weekly; one term.

Study Europe from 1870 to the present. Explore and analyze domestic changes in European states since the Franco-Prussian War, imperialism, interior reforms, origins of World War I, peace-making at Versailles, depression, totalitarianism, background of World War II, the Cold War and detente through the revolutions in the former Soviet sphere. Prereq(s): *Eligibility for ENG 101/ENG 101A*.

HIS 227 - History of Medieval and Renaissance England

3 credit hours - Three hours weekly; one term.

Survey England from the Roman Era to 1603 including Anglo-Saxon England; Norman Conquest through establishment of the Plantagenet Empire; economic and constitutional foundations of the monarchy, Parliament and judiciary; and the Tudor era. Taught as a travel-study course during the Winter Two-week Term. Prereq(s): *Eligibility for ENG 101/ENG 101A*.

HIS 228 - History of Modern England

3 credit hours - Three hours weekly; one term.

Survey England from 1603 to the present covering the Stuart era and the constitutional struggle of the 17th century; Hanoverian period and foundations of the first overseas empire; parliamentary reform and liberal empire; two world wars and their aftermath; through to the Blair era. Prereq(s): *Eligibility for ENG 101/ENG 101A*.

HIS 229 - The Vietnam Era in U.S. History

3 credit hours - Three hours weekly; one term.

Examine the Vietnam War and its effect on American society, politics and culture. Explore the conflicting values and political decisions that affected Americans in a time of turmoil and change. Prereq(s): *Eligibility for ENG 101/ENG 101A*.

Course Outcomes

Acquire knowledge of what led up to America's involvement in Vietnam.

Know the geography and general history of Vietnam.

Understand the conditions that prevailed in Vietnam during the French control.

Understand the United States government's commitment to the War.

Understand the US government's foreign policy at this time.

Assess the political instability of Vietnam during the 1960s.

Understand early American involvement.

Describe the American policies and strategies during the War.

Identify American military strategies during the War.

Understand the concept of "Vietnamization" regarding the War.

Analysis the search for the peace the ultimate Paris Peace Accords.

Analyze the affect of the War in America.

Understand the early resistance to the War.

Analyze the growing dissent in America.

Analyze the affects that the War had on music, films, and literature.

Analyze the legacy of Vietnam-the plight of the Vietnam veteran.

HIS 231 - The Holocaust

3 credit hours - Three hours weekly; one term.

Examine the history of European anti-Semitism, the development and implementation of the final solution through to the establishment of Israel. Includes a field trip to the Holocaust Museum. Lab fee \$40. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Winter

HIS 280-299 - Special Topics in History

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An intensive study of a historical topic or theme not ordinarily emphasized in basic survey courses, or a means of earning credit for supervised travel and study. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Fees will vary. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Histotechnology

HTC 100 - Introduction to Histology Safety and Techniques

4 credit hours - 45 lecture and 30 laboratory; one term.

Explore the safety requirements necessary in a histology laboratory including government regulations and standards for storage and disposal of biological and chemical material. Learn how to adhere to Standard Precautions at all times. Learn how to analyze quality control material and utilize the metric system when performing dilutions and solution preparation. Utilize histology laboratory equipment and perform staining procedures of histology specimens. Lab fee \$215. Prereq(s): *Acceptance into the HTC Program.*

Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

1. Apply principles of safety and adherence to government regulation and standards to the histology laboratory.
2. Demonstrate basic safety techniques while preparing solutions for histology specimens.
3. Perform and monitor quality control within predetermined limits.
4. Utilize the metric system to prepare molar and percent solutions.
5. Utilize the metric system to perform dilutions.
6. Utilize histology laboratory instruments correctly and safely.
7. Perform maintenance procedures and troubleshooting techniques on histology laboratory instruments.
8. Perform basic techniques for histology specimens.

HTC 101 - Basic Histotechnology

4 credit hours - 45 lecture and 45 laboratory; one term.

Explore the accessioning and processing of tissue specimens into the histology laboratory. Prepare basic tissue specimens for microscopic examinations, including all routine procedures. Identify tissue structures and their staining characteristics. Recognize

factors that affect procedures and results and take appropriate action within predetermined limits when corrections are indicated. Perform basic staining techniques of histology specimens. Lab fee \$244. Prereq(s): *HTC 100 with a grade of C or better*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate best practices and knowledge of the standard operating procedure for accessioning, processing, and fixation of tissue specimens into the histology laboratory.
2. Demonstrate basic knowledge of the anatomy, morphology, and histology of tissue specimens and be able to prepare them for microscopic examination, including all routine procedures.
3. Identify tissue structures and their staining characteristic.
4. Identify factors that affect procedures and results, and take appropriate action within predetermined limits when corrections are indicated.
5. Perform basic staining techniques of histology specimens.

HTC 201 - Advanced Histotechnology

4 credit hours - 45 lecture and 45 laboratory; one term.

Explore the fixation of histology specimens. Prepare specimens for embedding using microtome techniques. Continue with learning the morphology, anatomy, and histology of all tissues in the body. Continue with advanced staining techniques used in the histology laboratory. Prepare advanced tissue specimens for microscopic examinations, including all advanced procedures. Identify tissue structures and their staining characteristics. Lab fee \$270. Prereq(s): *HTC 101 with a grade of C or better*. Coreq(s): *HTC 204*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

- Perform histological fixation techniques on all tissues of the human body.
- Determine the parameters necessary for the specimens used for fixation techniques, including size, volume, and time of fixation, temperature, and other such as pH.
- Perform embedding techniques including paraffin, gelatin, and adhesive techniques for microtome use.
- Utilize, maintain, troubleshoot, and perform quality control procedures on all instruments used in the histology laboratory.
- Prepare advanced tissue specimens for microscopic examination.
- Perform all advanced staining techniques used in the histology laboratory.

HTC 202 - Histotechnology Laboratory Clinical 1

3 credit hours - 160 hours of clinical; one term.

Perform basic histotechnology procedures in a clinical setting. Prepares students for national certification as a histotechnician. Clinical fee \$127. Prereq(s): *HTC 201 and HTC 204 with grades of C or better*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring

Course Outcomes

- Receive, accession, and process tissue specimens, including staining of specimens, into the histology laboratory at a local hospital anatomic histology laboratory.
- Prepare dilutions, percent solutions, and molar solutions in the histology laboratory.
- Adhere to all safety regulations and protocols that must be followed to ensure safety in the histology laboratory.
- Demonstrate professional conduct and interpersonal communication skills with clinical site laboratory personnel, other health care professionals, and the public.
- Recognize the responsibilities of other laboratory and healthcare professionals and interact with them with respect for their jobs and patient care.
- Exercise principles of management, safety, and supervision, as the primary analyst making specimen- oriented decisions on predetermined criteria, including a working knowledge of criteria values.

HTC 203 - Histotechnology Laboratory Clinical 2

3 credit hours - 160 hours of clinical; one term.

Perform advanced histotechnology procedures in a clinical setting. Prepares students for national certification as a histotechnician. Clinical fee \$127. Prereq(s): *HTC 202 with a grade of C or better*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring

Offered: Spring

Course Outcomes

- Receive, accession, and process tissue specimens, including staining of specimens, into the histology laboratory at a local hospital anatomic histology laboratory.
- Assist with gross examination and frozen section procedures in histopathology.
- Perform immunostaining and other immunohistochemical techniques used in the histology laboratory.
- Prepare dilutions, percent solutions, and molar solutions in the histology laboratory.
- Adhere to all safety regulations and protocols that must be followed to ensure safety in the histology laboratory.
- Demonstrate professional conduct and interpersonal communication skills with the clinical site laboratory personnel, other health care professionals, and the public.
- Recognize the responsibilities of other laboratory and healthcare professionals and interact with them with respect for their jobs and patient care.
- Exercise principles of management, safety, and supervision, as the primary analyst making specimen- oriented decisions on predetermined criteria, including a working knowledge of criteria values.

HTC 204 - Genetics, Microbiology and Pathogenic Diseases of the Body

3 credit hours - Three hours of lecture weekly; one term.

Explore the basics of genetics and pathogenic causes of disease in the human body, beginning with basic cell structure and progressing through the role of inflammation and infection by microorganisms to the disease process. Learn the repercussions of changes to DNA on genomic expressions through tumor formation or other pathological changes. General pathology and body system approach. Prereq(s): *HTC 101 with a grade of C or better*. Coreq(s): *HTC 201*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

- Describe the components of cell biology, and the cell's response to stress and toxic insult, inflammation, and repair.
- Identify the major pathogenic microorganisms, viruses, and parasites that cause infectious diseases.
- Differentiate the disease or disorders caused by recessive or dominant genetic inheritance, the diseases of the immune system, and hemodynamic disorders.
- Discuss the different types of neoplasms and associated body organ, and their effects on the human body.
- Describe the pathology of the cardiovascular/lung system.
- Describe the pathology of the digestive system.
- Describe the pathology of the kidney and urinary tract system.
- Describe the pathology of male and female genital systems.
- Describe the pathology of the breast.
- Describe the pathology of the skin, bones, joints and soft tissues.
- Describe the pathology of the central nervous system.
- Describe the pathology of the peripheral nerves and skeletal muscles.
- Describe the pathology of the eye.

HTC 205 - Histotechnology Review

3 credit hours - Three hours of lecture weekly; one term.

Review the aspects of histotechnology learned in the didactic and clinical courses of this program. Apply knowledge and principles during this review to prepare for a histotechnician career and the certification exam. Prereq(s): *HTC 201 and HTC 204 with grades of C or better*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

- Perform the laboratory mathematics necessary to prepare dilutions, percent solutions, and molar solutions in the histology laboratory.
- State the regulations that must be followed to ensure safety in the histology laboratory.
- Identify all tissue in the body, given histological and anatomical images.
- Apply knowledge of fixation techniques, including basic and advanced. The basic and advanced knowledge includes the knowledge of parameters, reagents, instrumentation, and procedures.

State the principles of each stain used in the histology laboratory and recall its mode of action, and when and why each stain is utilized.

State the principles, antigen retrieval, and immunostaining procedures utilized in immunohistochemistry staining.

Homeland Security Management

HLS 111 - Introduction to Homeland Security

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement.

Demonstrate an understanding of theory, practice, and components of homeland security, including administrative, operational and legislative concepts. Explore both the public sector and private sector of local, state, national, and international levels impacting Homeland Security. Examine the most critical threats confronting Homeland Security. Crosslisted: *Also offered as HLS 111H; credit will not be given for HLS 111 and also HLS 111H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL)

Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Analyze the role and function of mass media (nationally and internationally) as influencing people's perspectives in homeland security and emergency preparedness.

Assess the role, functions of, and coordination between agencies of intelligence, homeland security and emergency preparedness.

Compare the various structures and homeland security initiatives of local, state, federal and international organizations.

Evaluate positions related to critical homeland security ethical issues by using intelligence strategies, case studies and simulations.

Identify valuable information and proven best practices in preparedness and mitigation of hazards.

Propose the need for future change and improvement, based on past changes in homeland security policies, systems, data, and procedures.

Articulate ideas and write valid and reliable intelligence reports, summaries and documents pertaining to homeland security functions.

Explain the characteristics, ideologies, motives, and behaviors of various extremist and terrorist groups that foster and support terrorist, criminal activities.

HLS 111H - Introduction to Homeland Security – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Demonstrate an understanding of theory, practice, and components of homeland security, including administrative, operational and legislative concepts. Explore both the public sector and private sector of local, state, national, and international levels impacting Homeland Security. Examine the most critical threats confronting Homeland Security. Prereq(s):

Eligibility for Honors courses. Crosslisted: *Also offered as HLS 111; credit will not be given for HLS 111H and also HLS 111.*

Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Analyze the role and function of mass media (nationally and internationally) as influencing people's perspectives in homeland security and emergency preparedness.

Assess the role, functions of, and coordination between agencies of intelligence, homeland security and emergency preparedness.

Compare the various structures and homeland security initiatives of local, state, federal and international organizations.

Evaluate positions related to critical homeland security ethical issues by using intelligence strategies, case studies and simulations.

Identify valuable information and proven best practices in preparedness and mitigation of hazards.

Propose the need for future change and improvement, based on past changes in homeland security policies, systems, data, and procedures.

Articulate ideas and write valid and reliable intelligence reports, summaries and documents pertaining to homeland security functions.

Explain the characteristics, ideologies, motives, and behaviors of various extremist and terrorist groups that foster and support terrorist, criminal activities.

HLS 112 - National Security Law

3 credit hours - Three hours weekly; one term.

Examines the revolutionary age in which we live and how national security law is changing and being redefined to address that revolution. No area within the law has been more significantly affected by the September 11th terrorist attack on the United States than the law related to national security. As successive administrations wrestle with defining "jurisdiction," national security law takes on an ever increasing importance in a world that is drawn even closer together through "globalization." This course will analyze the functioning of national security laws and their impact on society. It will also balance United States Constitutional principles against the need for security. Prereq(s): *HLS 111 or permission of director*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Demonstrate the ability to properly interpret and apply essential information

Define national security law.

Compare and contrast principles of jurisdiction.

Analyze historical patterns of jurisdiction.

Analyze the function of mass media and its role in contributing to, preventing and intervening in terrorist activities.

Examine, calculate and project outcomes of domestic and international trials involving terrorist activities.

Explain the actual application of national security laws given specific case scenarios.

Construct a legal defense and or prosecution case for terrorism cases.

Analyze and articulate possible futures for the evolution of national security law.

Evaluate the utility of national security laws

Assess the validity of certain national security laws.

Examine the short and long term effects of national security laws on U.S. citizens, immigration and foreign relations.

HLS 113 - Drugs, Addiction, Corruption and Crime

3 credit hours - Three hours weekly; one term.

Explore the major phases in the illegal drug trade, including the growing, processing, transporting, distributing, consuming and financing of the product. Study the efforts to combat the influence of illegal drugs at each step in the process. Focus on the roles of the drug dealers, the government, the media, and society in general and the causes and consequences of illegal drugs. Prereq(s): *HLS 111 or permission of director of homeland security institute*.

Course Outcomes

Upon successful completion of this course, students will be able to:

Convey critical and relative information

Accurately define the drug problem throughout the world.

Verbally communicate facts and ideas with clarity and accuracy.

Write reports, summaries and documents with clarity, accuracy and conciseness.

Compare and contrast critical facts and ideas pertaining to the history and present conditions of illegal drug use and trafficking.

Demonstrate the ability to properly interpret and apply essential information

Accurately interpret national and international statistics on drug addiction, drug trafficking, crimes related to drug addiction, arrests and convictions, etc.

Describe new research on the effects of drugs.

Identify state, national and international laws regarding illegal drugs.

Correctly apply national and international laws to specific case studies involving drug production, transportation and distribution.

Compare and contrast principles of jurisdiction.

Determine the efficacy of law enforcement operations, national intelligence, media and other sources to battle the drug problem.

Describe and analyze efforts by the United States government to combat the full scope of the drug problem.

Assess the role and impact of mass media on the drug war.
Project the future status of drug use and trafficking in the United States such as decriminalization, harm reduction efforts, and new enforcement laws.

HLS 114 - Maryland and Terrorism

3 credit hours - Three hours weekly; one term.

Introduces students to the potential threats that can affect the typical citizen. Provides thoughtful suggestions as to how to enhance personal security. Examines the efforts of local, state and federal governments to combat terrorism. Also explores the impact terrorist threats have on local societies. Prereq(s): *HLS 111 or permission of director*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Demonstrate the ability to properly interpret and apply essential information.

- Analyze and describe functioning terrorist organizations.
- Define the potential threat to the typical citizen.
- Analyze and describe the historical patterns of terrorists and terrorist organizations.
- Analyze and describe the role of the media.

Examine, calculate and project outcomes from possible terrorist threats and natural disasters likely to occur in Maryland.

- Explain the efforts and coordination between local, state and federal governments to combat and respond to terrorism.
- Project future actions to locally combat terrorism.

Evaluate personal accountability and resourcefulness toward responding to terrorist threats and attacks.

- Assess personal preparedness.
- Identify response agencies in proximity to personal residence.
- Create a written personal security and protection plan.

HLS 125 - The Future of Homeland Security

3 credit hours - Three hours weekly; one term.

Develop an understanding of today's key Homeland Security issues and challenges. Explore the impact of current Homeland Security policies on the future. Use futuring tools to examine the implications of changes to United States policies and provide guidance to improve future United States international and domestic security. Note: *Credit is not given for HLS 125 and also FTR 125.*

Course Outcomes

Introduction to the Future of Homeland Security (HLS).

- Explore Current US Policies of HLS.
- Explain HLS Challenges.
- Assess Opportunities.
- Discuss Future US Policies of HLS.
- Determine Perspectives on the Future.
- Evaluate Impacts of Future Technologies.

US HLS Interests and Critical Infrastructures.

- Determine Importance of HLS and National Security.
- Understand PMESII (Political, Military, Economic, Social, Infrastructure and Information systems) and DIME (Diplomatic, Informational, Military and/or Economic).
- Examine Critical Infrastructure Protection.
- Appraise Human Factors.

Hazards and Threats.

- Discuss Natural and Accidental.
- Explain Man-made.
- Review Warfare.

State and Non-state Actors.

- Describe Major National Players.
- Identify Non-State Entities (Terrorists).
- Define Organizations and Groups (Activists).

Cyber Power Implications.

- Compare Cyber Power/Soft Power.
- Interpret Capabilities and Intentions.
- Assess Opportunities and Challenges.

Cyber Warfare and National Security.

- Discuss Strategic Deterrence.
- Describe Cyber Crime.
- Critique Cyber Warfare Strategies.

Future Scenarios and Problem Solving.

- Identify Challenges Ahead.
- Compare and Contrast Implications to HLS.
- Evaluate Improved Defensive Measures.
- Explore International Political Solutions.
- Propose International Military Solutions.
- Develop National Protection Scenarios.
- Research and Assess the Way Ahead.

HLS 211 - Intelligence Analysis and Security Management

3 credit hours - Three hours weekly; one term.

Examines intelligence analysis and its indispensable relationship to the security management of terrorist attacks and other threats. Explores vulnerabilities of our national defense and private sectors, as well as the threats posed to these institutions by terrorists, man-made disasters, and natural disasters. Students will discuss substantive issues regarding intelligence support of Homeland Security measures implemented by the United States and explore how the intelligence community operates. Lab fee \$20. Prereq(s): *HLS 111 or permission of director*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Learner demonstrates thorough knowledge of current issues surrounding domestic, and international terrorist planning, activities, threats, etc.

- Learner identifies the most essential forms of intelligence.
- Learner outlines the purpose and functions of key national and international intelligence agencies.
- Learner accurately analyzes critical intelligence documents, data and materials.

Critical Thinking and Problem Solving

- Learner accurately solves problems through the use of social, legal, political and religious domains of thinking.
- Learner explains the fundamental mission and key tactics used with the most infamous terrorist and extremist groups in the country and in the world.
- Learner outlines the purpose and functions of key national and international intelligence agencies.

Information Literacy and Research

- Learner will use written material and technological instruments through which to ascertain critical information.

Global Perspective

- Learner will demonstrate a comprehensive knowledge of geographic territories relative to extremist and terrorist groups.
- Learner will articulate the purpose and objectives of the United Nations regarding the Declaration for Human Rights and their response to terrorist activities.

HLS 212 - Survey of Weapons of Mass Destruction

3 credit hours - Three hours weekly; one term.

Surveys the primary instruments of destruction and death, known as weapons of mass destruction (WMD), used or sought to be used by terrorists. Addresses the definition, categories, characteristics, capabilities, deployment and impact of nuclear, biological, chemical, radiological, and conventional weapons of mass destruction. Focuses on the fundamentals of first responders and operational level responses to weapons of mass destruction disasters, including planning and training. Prereq(s): *HLS 111 or permission of director*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Communications

Learner accurately describes the definition of domestic and international terrorism

Learner articulates the key historical developments and events involving the planning, creation and use of weaponry for mass destruction in the U.S. and throughout the world.

Learner analyzes printed material, documents and blue prints reflecting the use of weaponry.

Critical Thinking & Problem Solving

Learner examines problems through the use of social, legal, political, and religious domains of thinking.

Learner outlines the national goals, objectives and strategies regarding the response to terrorist activities throughout the world.

Learner outlines the United Nation's goals, objectives and strategies regarding the response to terrorist activities throughout the world.

Learner evaluates the use of weapons of mass destruction using the greatest of ethical reasoning to ensure the safety and human freedoms of all cultures and societies.

Global Perspectives

Learner communicates the socio-political and psychological interests of primary terrorist groups and individuals.

Learner outlines the national goals, objectives and strategies regarding the response to terrorist activities throughout the world.

Learner outlines the United Nation's goals, objectives and strategies regarding the response to terrorist activities throughout the world.

Learner evaluates the use of weapons of mass destruction using the greatest of ethical reasoning to ensure the safety and human freedoms of all cultures and societies.

Scientific, Mathematical & Technological

Learner collects, organizes, computes and interprets quantitative and qualitative data and/or information concerning the use and deployment of weapons of mass destruction.

Learner applies mathematics, science and technology to project deployment tactics and impact of weapons used in terrorist attacks.

Learner conducts statistical benefit analysis and probable solutions to complex threats and their likely impact on targeted areas.

HLS 213 - Transportation and Border Security

3 credit hours - Three hours weekly; one term.

Provides an in-depth view of modern border and transportation security. Specific topics include security for seaports, ships, aircraft, trains, trucks, pipelines, buses, etc. Focuses on the technology needed to detect terrorists and their weapons as well as includes discussion on legal, economic, political, and cultural aspects of the problem. Lab fee \$20. Prereq(s): *HLS 111 or BPA 235 or permission of director*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Accurately read and interpret geographical maps, diagrams, etc.

Analyzes local, state of Maryland and federal maps, graphical diagrams and plans to ascertain jurisdictions.

Analyze critical data.

Problem Solve using key concepts and principles in border control and transport security.

Write clear, accurate, detailed and concise reports.

Work effectively with others.

Accurately identify critical land and water boundaries.

Identify critical national and international laws and regulations regarding immigration, transportation, customs, etc.

Demonstrate knowledge of operations and functions of federal and international border and transportation systems.

Explain the meaning of and reasons for recent reforms in the law governing border and transportation security.

Identify the strategic plan for national and international border and transportation security.

Outline the strategic plans used by local and national governments and private sectors to provide railroad, port, cargo and aviation security.

Outline the strategic plans used by local and federal governments, and private sectors to provide truck, road, and vehicle security.

Outline the strategic plans used by local and federal governments and private sectors to provide mass transportation security.

Outline the strategic plans used by local and federal governments and private sectors to provide pipeline security.
Exhibit proficient writing and oral skills in expressing accurate information and providing assessments.
Demonstrate critical thinking skills through table-top exercises.

HLS 220 - Intelligence and U.S. National Security

3 credit hours - Three hours weekly; one term.

Examines the historical development of intelligence in supporting U.S. foreign and national security policy. Surveys the development of the intelligence discipline from the Revolutionary War to the 21st Century Global War on terrorism. Evaluates the legislation, executive orders and events that influence how intelligence has evolved to support U.S. policy makers and defines the intelligence process and how the intelligence disciplines and the agencies responsible for them support the policy maker and military commanders. Lab fee \$20. Prereq(s): *Eligibility for ENG 101/ENG 101A and PLS 111 or HIS 212 or permission of director.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Infrequently

Course Outcomes

Upon successful completion of this course, the student will be able to:

Discuss the history of intelligence from the Revolutionary War to WWII.

Compare and contrast the intelligence Presidents have used from the Revolutionary War to WWII.

Detail how intelligence evolved organizationally and culturally from the Revolutionary War to WWII.

Analyze the development of the Intelligence Community from WWII to the present.

Identify the primary historical, bureaucratic and social factors driving the establishment of the Intelligence Community and the intelligence organizations which comprise it.

Compare and contrast the effectiveness of the Directors of Central Intelligence in supporting U.S. national security policy.

Evaluate and analyze how the Presidents used the intelligence community to achieve our national security objectives.

Define the intelligence disciplines.

Define the various intelligence disciplines.

Use appropriately selected terminology used in the various intelligence disciplines.

Apply the intelligence process.

Recall the principle steps in the intelligence cycle.

Explain how the intelligence process works in providing intelligence support to our national security leaders.

Explain the roles and missions of the Intelligence Community's agencies and organizations.

Detail the core mission of each intelligence agency/activity and whom they support.

Compare and contrast the effectiveness of each intelligence agency/activity in providing support to our national security leaders.

Evaluate the various intelligence legislation and executive orders.

Identify the principle authorities, legislation and legal documents which authorize intelligence activities.

Evaluate the effectiveness of the legislation and executive orders in support of our national security and protecting our civil liberties.

Explain the role of Congress and the Executive Office in intelligence oversight, planning and execution.

Evaluate how effective Congress is in providing oversight.

Detail the intelligence appropriation/authorization process.

Evaluate how effective the Executive office is managing the Intelligence Community and providing oversight.

HLS 225 - Introduction to Intelligence Analytics

3 credit hours - Three hours weekly; one term.

Learn the intelligence analytical process and review the methodical approaches used by intelligence analysts to prepare assessments for U.S. policymakers. Examine the analytical process used to assess instability/strategic warning and terrorism analysis. Analyze the factors which influence an analyst's work to include the cognitive, cultural/social and institutional biases and how politicization of intelligence influences the analytical process. Explore various tools and research methods used by analysts to process and organize information and develop and present intelligence briefings. Lab fee \$20. Coreq(s): *HLS 211 or HLS 220 or permission of director.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Utilize analytical methodologies, tool and techniques.

Utilize analytical tools and techniques in intelligence analysis.

Practice using analytic software.

Describe the impediments to accurate intelligence analysis.

Identify and mitigate cognitive, cultural, bureaucratic, self-interest biases.

Recognize intelligence "noise".

Recognize the politicization of intelligence.

Discuss the impact of deception.

Explain the analytic process for strategic warning/assessing political instability.

Describe the fundamentals of warning analysis.

Illustrate the role of political and military indicators in the assessment process.

Explain how strategic warning supports the policymaker.

Develop indicators of warning.

Explain the analytic process for terrorism analysis.

Create terrorism indicator lists.

Create terrorist hypothesis and utility matrix.

Demonstrate use of terrorism analytic software.

Practice organizing information to determine relationships/links.

Present an intelligence briefing for an audience.

Create clear and concise briefing slides which convey bottom line analysis.

Express intelligence analysis orally in a concise and persuasive manner.

Demonstrate appropriate body posture/movements during briefing.

Emphasize key points for the audience to remember and apply.

HLS 230 - Intelligence Support to the Policy Maker and Military

3 credit hours - Three hours weekly; one term.

Examine how U.S. intelligence supports the creation, implementation and evaluation of U.S. foreign and national security policy.

Analyze and evaluate the role of intelligence during critical foreign policy and national security events in U.S. history. Examine the intelligence community (IC) analytical processes and the mediums used to advise decision makers and military leaders. Also examine intelligence community's relationship and support to local and state government and industry. Lab fee \$20. Prereq(s): *HLS 211 or HLS 220 or permission of director.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Evaluate and analyze intelligence support to a U.S. foreign policy.

Identify the intelligence issues/factors which contributed to the foreign policy outcome.

Explain how intelligence influences the policy making process.

Evaluate and analyze intelligence support to U.S. military operations.

Relate the military intelligence issues/factors that contributed to military success/failure.

Explain how intelligence influences the military decision making process.

Evaluate political influence in the intelligence process.

Recognize politicization of intelligence.

Describe strategies for mitigating intelligence politicization.

Explain the ethical issues of intelligence.

Develop and present intelligence briefings.

Demonstrate effective briefing strategies.

Improve ability to influence audience.

Improve slide making skills.

HLS 240 - National Security Challenges of the 21st Century

3 credit hours - Three hours weekly; one term.

Survey the major national security challenges facing the intelligence community in the 21st century: terrorism, transnational crime, cybercrime, nuclear weapons proliferation, and regional conflicts. Explore the technological and scientific principles required of analysts who follow these major intelligence challenges and how the U.S. government is addressing these challenges. Prereq(s): *HLS*

211 or HLS 220 or permission of director. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Evaluate the impact of the major 21st century challenges of U.S. national security.

Analyze how regional conflicts impact on U.S. security and economics interests.

Analyze how weapons of mass destruction influence U.S. policy.

Analyze how transnational crime impacts on U.S. national security and economy.

Explain the specific social, economic, military, scientific and technological principles and factors in the 21st century national security challenges.

Explain the technology and scientific principles of nuclear proliferation, biological threats, and cyber threats.

Explain the social and economic factors in transnational crime, terrorism, and economic competition for resources.

Explain the military and security issues involving the regional tensions between China and Taiwan, North and South Korea and India-Pakistan.

Analyze U.S. government/international response to the 21st century national security challenges.

Evaluate U.S. policy in settling regional conflicts, combating terrorism and fighting transnational crime.

Discuss policy alternatives for dealing with the regional conflicts, terrorism and transnational crime.

HLS 245 - Intelligence Analytics Seminar

4 credit hours - Four hours weekly; one term.

Conduct practical exercises involving the development of various intelligence products and present briefings to current and former U.S. policy makers, military leaders and politicians. Practice intelligence writing to produce analytical materials used in daily intelligence support to the policy maker. Lab fee \$20. Prereq(s): *HLS 225 or permission of director.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Select and utilize the appropriate analytical methodologies and tools.

Practice using analytical tools and techniques.

Employ and gain experience using analytic software.

Mitigate impediments to accurate intelligence analysis.

Recognize cognitive bias which impact on analysis.

Develop strategies for overcoming biases.

Develop strategies for overcoming other impediments such as information overload, and group dynamics.

Develop a warning problem.

Practice developing a warning problem.

Develop indicators of warning.

Analyze factors of instability in a country/system.

Conduct warning and trends analysis.

Develop an intelligence collection plan.

Evaluate and select resources.

Synchronize collection requirements.

Develop and prioritize intelligence requirements.

Develop a national intelligence estimate.

Practice the analytical process of National Intelligence Estimate development.

Demonstrate writing clear and concise bottom line analysis.

Develop alternative scenarios/hypothesis.

Work effectively in a group.

Prepare written intelligence estimates, develop and present intelligence briefings.

Create clear and concise briefing slides which convey bottom line analysis.

Express intelligence analysis orally in a concise and persuasive manner.

Demonstrate appropriate body posture/movements during briefing.

Emphasize key points for the audience to remember and apply.

Develop strategies for dealing with disagreements over the presentation.

HLS 261 - The Middle East and U.S. National Security

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Gain an analytical framework to examine the history of the Middle East region, focusing on the following areas: the pre-Islamic era; the rise and expansion of Islam; medieval Muslim society and culture; the rise, decline, and collapse of the Ottoman Empire; the impact of the West on politics and society; the rise of nationalism; the Arab-Israeli conflict and peace process; and modern revolutionary movements and the resurgence of Islam. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Note: *Credit is not given for HLS 261 and also HIS 261*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Analyze the religious, historical, political, economic, and strategic factors that make the Middle East relevant to the American people and guide U.S. foreign policy in the region.

Enumerate the characteristics of major ethnolinguistic groups and religious denominations of the Middle East.

Analyze the nature of the political-religious dichotomy in the Muslim world.

Describe critical historical processes and themes that have shaped the development of the Middle East from the late-Ottoman period until the present.

Examine critical developments in Middle East conflicts and peace negotiations and examine their influence on U.S. National Security.

Analyze current U.S. strategies and policies toward the Middle East.

HLS 265 - Homeland Security, Emergency Management and Response Seminar

3 credit hours - Three hours weekly; one term.

Analyze historic and contemporary local, national and global catastrophic incidents and various emergency response policies, laws, and operations used to mitigate and treat human injury and structural damage. Apply knowledge and specific skills to table-top simulations and case studies; design emergency response and preparation plans; exercise NIMS (National Incident Management System); and engage in dialogue with experts in the field. Prereq(s): *HLS 111 and CJS 260/HLS 260 or permission of the director*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Honors

HON 280-299 - Special Topics in Honors

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An honors level special topics course offering a multidisciplinary approach to various subject matter. The theme of the course will center on relevant issues with special attention given to incorporating multiple pedagogical methods, with emphasis on critical thinking and communication, in an effort to provide expansive learning opportunities to high-achieving students. Students will be challenged to develop their full potential through a variety of educational activities that will provide an in-depth analysis of a specific area of academic study. Prereq(s): *Admission to the honors program*.

Hotel/Restaurant Management

Students are required to wear an approved chef uniform for production classes. See course descriptions for specifics.

HRM 111 - Introduction to the Hospitality Industry

3 credit hours - 45 hours of lecture.

Learn the scope of the hospitality industry, beginning with a look at the history and development of the industry. Major topics include travel and tourism, lodging, food and beverage, managed services, gaming and entertainment, meetings, conventions, and expositions. Learn about current industry trends, ethics, economic impact, social and cultural impact, and political and legal impact which are discussed within each topic. Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Analyze the key factors responsible for the growth and development of the hospitality and tourism industry.
2. Describe the current trends and challenges faced by the hospitality and tourism industry, in the context of global, economic, environmental, health and other social concerns.
3. Discuss the various scopes and classifications of the industry and describe the different types of ownership and development.
4. Identify career goals and effective strategies for achieving them.
5. Describe leadership and professional fluency related to the hospitality industry, customer service, teamwork, communication and critical thinking.
6. Utilize information research skills using library resources and reference books.

HRM 119 - Certification in Sanitation

1 credit hour - 16 hours of lecture.

Learn the causes and prevention of foodborne illness, maintenance of sanitary conditions, and how to implement a Hazard Analysis Critical Control Point (HACCP) system. A ServSafe® Food Protection Manager certification from the NRA is issued to students who satisfactorily complete the course and pass the examination. Crosslisted: *Also offered as HCT-333 for noncredit.* Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify types and sources of foodborne illnesses.
- Describe industry-standard food safety procedures.
- Discuss the importance of proper food safety management systems.
- Qualify for National Restaurant Association Food protection Manger's certification.

HRM 121 - Introduction to Cooking

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Learn the fundamentals of cooking, knife skills, culinary terminology, and equipment usage. Prepare a variety of food products in a commercial kitchen setting according to industry standards. Lab fee \$225. Prereq or Coreq: *A current ServSafe® Food Protection Manager Certification, HRM 119, or permission of the Director of the HCAT Institute.* Note: *Students must provide the required uniform and knife kit. Students pursuing the Hotel/Restaurant Management - Hospitality Management degree option or the Hospitality Management certificate are exempt from purchasing the knife kit.* Location(s) Typically Offered: Glen Burnie (GB) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the characteristic features of food service kitchens, including organization, layout and skill levels for typical kitchen jobs or assignments.
- Identify commercial kitchen equipment.
- Identify professional kitchen small wares, hand tools and utensils for proper usage.
- Prepare assigned food products according to standards.
- Demonstrate professional sanitation, demeanor, and workforce skills in all class activities.

HRM 123 - Cooking Techniques 1

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Students will develop skills and knowledge obtained in HRM 121 with an emphasis on classical cooking methods. Main topics that are discussed and practiced include soup, stock and sauce preparation, basic kitchen management techniques, food safety, sanitation, and organizational skills. Students will also taste and critique recipes prepared in a professional kitchen environment. Lab fee \$250. Prereq(s): *HRM 119 and HRM 121 or permission of the Director of the HCAT Institute.* Note: *Students must provide the required uniform and knife kit.* Location(s) Typically Offered: Glen Burnie (GB) and Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Practice proper cooking methods and preparation techniques in food production.

Define cooking terms and utilize vocabulary related to food preparation and cooking.

Formulate production tasks by priorities.

Demonstrate professional sanitation, demeanor, and workforce skills in all class activities.

HRM 124 - Introduction to Baking and Pastry

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Students will be introduced to professional bread production, including yeast breads, sweet dough, and quick breads. This course will also assist with building a sense of timing and skills needed to produce basic doughs, pies, cookies, custards, and choux pastry. Lab fee \$145. Prereq or Coreq: *A current ServSafe® Food Protection Manager Certification, HRM 119, or permission of the Director of the HCAT Institute.* Note: *Student must provide the required uniform of white chef coat, scarf, apron, checkered kitchen pants, black closed toe shoes and a chef hat.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify pastry commercial kitchen equipment, small wares, hand tools, and utensils for proper usage.
- Demonstrate proficiency with fundamental bakeshop procedures.
- Identify standard baking and pastry products and their components.
- Prepare introductory level baked products.
- Demonstrate professional sanitation, demeanor, and workforce skills in all class activities.

HRM 140 - Event Planning

3 credit hours - one hour lecture, two hours laboratory

Students will explore innovations in the special events industry, with an emphasis on design, planning, coordinating, and evaluating events. In this class, students will also learn how to effectively navigate contract negotiations, client relationships, sustainability, security threats and cost-effective practices. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the various segments of the special events industry, including career opportunities.
2. Construct a formal catered event including party layout and design.
3. Identify contract specifications for a cost-effective event.
4. Demonstrate professional disposition and workforce skills in all class activities.

HRM 190 - Food Science and Nutritional Cooking

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Learn principles of food composition, the reactions and changes that occur during the preparation and cooking process and gain experience in the planning, execution and reporting of a food-based research project. Lab fee \$175. Prereq(s): *HRM 119, HRM 121, and HRM 124.* Note: *Students must provide the required uniform and knife kit.* Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of the course, the students will be able to:

1. Demonstrate the proper use of the scientific method as it applies to nutrition and cooking.
2. Describe and compare the dimensions of wellness.
3. Explain the physical and chemical properties of food ingredients.
4. Demonstrate professional sanitation, demeanor, and workforce skills in all class activities.

HRM 201 - Intermediate Bread Production

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Students will explore the history and role of bread in various cultures with a focus on the fundamentals of specialty artisan breads. Topics of discussion include bread production techniques, understanding the different qualities of various bread doughs, shaping

techniques, and the production baking process. Lab fee \$150. Prereq or Coreq: *HRM 119 or permission of the Director of the HCAT Institute*. Note: *Student must provide the required uniform of white chef coat, scarf, apron, checkered kitchen pants, black closed toe, slip resistant shoes, a chef hat and knife kit. It is suggested that students complete HRM 124 prior to registering for this course.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain the bread production process.
- Analyze the composition of bread formulas through the application of Baker's percentages.
- Produce a range of yeasted bread products.
- Demonstrate professional sanitation, demeanor and workforce skills in all class activities

HRM 202 - Intermediate Cake Production

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Learn the principles of cake production and decoration techniques. Discuss proper ingredients, mixing methods, and preparation of quality baked goods for special occasions. Lab fee \$240. Prereq(s): *HRM 119 and HRM 124 or permission of the Director of the HCAT Institute*. Note: *Students must provide the required uniform and knife kit.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Examine cake decorating terms and concepts.
- Produce a variety of sponge and high fat cakes.
- Produce a variety of cake décor items.
- Produce a variety of buttercreams and icings.
- Demonstrate professional sanitation, demeanor, and workforce skills in all class activities

HRM 203 - Intermediate Pastry Production

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Formerly European Pastry, Torte and Gateau Students will develop knowledge and skills necessary to produce a variety of classic tortes, gateaux, entremets, tempered chocolate and sugar décor and use these components to create buffet style pastries and desserts. Lab fee \$220. Prereq(s): *HRM 124 or permission of the Director of the HCAT Institute*. Note: *Student must provide the required uniform, knife kit and pastry add-on kit.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Produce chocolate and sugar décor.
- Prepare a variety of desserts and cakes according to recipe yields.
- Compare and contrast flavor profiles and texture in desserts.
- Create dessert buffet.
- Demonstrate professional sanitation, demeanor and workforce skills in all course activities.

HRM 205 - Cooking Techniques 2

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Students will develop skills and knowledge acquired in HRM 123 to effectively prepare vegetables, grains, pasta, poultry, meat, game, and seafood. Main topics that are discussed and practiced include traditional breakfast items, the principals of entrée production, and plate presentation. Lab fee \$290. Prereq(s): *HRM 123 or permission of the Director of the HCAT Institute*. Note: *Students must provide the required uniform, knife kit and culinary add-on kit.* Location(s) Typically Offered: Glen Burnie (GB) and Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Assess recipe ingredients to determine proper cooking methods
2. Demonstrate proper use of commercial kitchen equipment
3. Practice a variety of food presentation techniques.
4. Demonstrate professional sanitation, demeanor, and workforce skills in all class activities.

HRM 220 - Garde Manger

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Prepare traditional cold foods including salads, sandwiches, appetizers, hors d'oeuvres, charcuterie, and terrines. Use traditional preservation techniques and create decorative centerpieces for a final buffet presentation. Lab fee \$290. Prereq(s): *HRM 123 or HRM 203 or permission of the Director of the HCAT Institute.* Note: *Students must provide the required uniform and knife kit.* Location(s) Typically Offered: Glen Burnie (GB) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Describe the role of the Garde Manger chef and define the elements of the Garde Manger kitchen within the kitchen brigade.
2. Produce a variety of foods using food preservation techniques.
3. Produce a variety of food items associated with the Garde Manger kitchen.
4. Design a variety of show platters using edible garnishes.
5. Demonstrate professional sanitation, demeanor, and workforce skills in all class activities.

HRM 223 - International Cuisine

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Explore flavors and cooking techniques from regional and world cuisines. Learn about the historical roots of different cooking techniques from a cultural, geographical, and religious perspective. Lab fee \$275. Prereq(s): *HRM 123 and HRM 124 or permission of the Director of the HCAT Institute.* Note: *Students must provide the required uniform and knife kit.* Location(s) Typically Offered: Glen Burnie (GB) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Prepare various foods according to the specific cooking method of that region and culture
2. Evaluate the relationship between regional cultural communities & culinary practices.
3. Explore the effect of indigenous agricultural products on the regional and global economy.
4. Utilize information research skills using library resources and reference books.
5. Demonstrate professional sanitation, demeanor, and workforce skills in all class activities

HRM 225 - Restaurant Production and Simulation

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Apply a variety of theories, methods, and philosophies of food production, service, styling, composition, and presentation in a restaurant simulation setting. At the end of this course students will be able to demonstrate critical thinking techniques by creating unique culinary dishes through open-ended cooking exercises. Lab fee \$350. Prereq(s): *HRM 190 and HRM 205 or permission of the Director of the HCAT Institute.* Note: *Students must provide the required uniform, knife kit and culinary add-on kit.* Location(s) Typically Offered: Glen Burnie (GB) and Off Campus (OF) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Practice contemporary and progressive culinary techniques.
2. Compose various menus to fit specific service styles while accounting for numerous dietary restrictions.
3. Utilize critical thinking, spontaneous knowledge recall, product knowledge and time management in a variety of hospitality industry specific scenarios.
4. Demonstrate professional sanitation, demeanor, and workforce skills in all class activities.

HRM 226 - Advanced Pastry Production

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Apply professional pastry techniques and time-management skills to design, execute, and produce various advanced pastry desserts. Lab fee \$175. Prereq(s): *HRM 190 and HRM 203 or permission of the Director of the HCAT Institute.* Note: *Student must provide the*

required uniform of white chef coat, scarf, apron, checkered kitchen pants, non-slip black closed toe shoes and a chef hat. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply advanced pastry vocabulary to the composition of dessert recipes and menus.
- Demonstrate a variety of composed advanced contemporary pastries and plated desserts.
- Evaluate plated desserts based upon a rubric using modern pastry standards.
- Design plated desserts according to current industry standards.
- Demonstrate professional sanitation, demeanor, and workforce skills in all class activities.

HRM 227 - Chocolates, Confections, and Entremet

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Apply advanced pastry techniques to the production of chocolate and sugar confections. Design and compose entremet for capstone presentation. Learn chocolate composition and crystallization. Apply professional pastry techniques to the design, execution, and production of various advanced pastry preparations. Lab fee \$195. Prereq(s): *HRM 202 and HRM 203 or permission of the Director of the HCAT Institute.* Note: *Students must provide the required uniform and knife kit. This is a capstone course.* Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Apply concepts of design to pastry production.
2. Prepare chocolates, sugar confections, and décor.
3. Design a miniature dessert display.
4. Demonstrate professional sanitation, demeanor, and workforce skills in all class activities

HRM 232 - World Culture and Cuisine: A Social Science Perspective

3 credit hours - 45 hours of lecture.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. This course is designed to help customer service industry professionals such as hospitality, health, and business professionals, to learn to work with members of different ethnic and religious groups in a culturally sensitive manner. Students will explore and examine food history, religion, traditional diets, economic impact, dietary adaptations, and therapeutic uses of food. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Examine social, political, religious and economic factors affecting food habits and the development of national cuisines.
2. Identify the cuisines and food habits of specific world cultures, including features of ethically 'acceptable' foods.
3. Examine the historic and contemporary influences on food and cuisine in the United States.
4. Utilize information research skills using library resources and reference books.
5. Describe the origins of human food production and the difference between "food" and "cuisine".
6. Define a "foodway" and how ethnic food products evolve over time and distance.

HRM 240 - Meeting and Conference Planning

3 credit hours - 45 hours of lecture.

Learn the process of how to effectively plan and execute meetings, events, expositions and conferences and explore the impact they have on the local hospitality and tourism industry. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the process of meeting planning using industry specific terminology.
2. Explain the history, purpose and organizational structure of convention and visitor bureaus.
3. Differentiate the different types of associations, expositions and trade shows.
4. Discuss current trends and best practices regarding legal and ethical issues in the meeting, special event, convention and exposition planning
5. Demonstrate professional disposition and workforce skills in all class activities.

HRM 251 - Restaurant Management

3 credit hours - 15 hours of lecture and 60 hours of laboratory.

Formerly Food and Beverage Operations Management Students will explore techniques of proper dining service in hospitality establishments and learn the organization of dining rooms and table settings, with an introduction to textiles and tableware. Students will also train and test for national certification for the responsible service of alcoholic beverages. A ServSafe® Alcohol certification from the NRA is issued to students who satisfactorily complete the course and pass the examination. Lab fee \$50. Prereq(s): *HRM 121 or permission of the director of the HCAT Institute.* Note: *The student must provide the required uniform of white t-shirt, black slacks and black closed toed slip resistant shoes.* Location(s) Typically Offered: Glen Burnie (GB) and Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the mechanics of proper table service as it pertains to American, English, Russian, French, Buffet and Non-Alcoholic Beverage service including the various qualities of textiles, glassware, flatware, and china.
- Perform the typical dining service staff positions, and describe the importance of communication between the front and back of the house employees.
- Explain the importance of using current industry technologies when processing guest checks and proper sales techniques used in increasing the guest check average.
- Identify and discuss legal concerns with regard to alcohol service, and describe the nature and growth of third-party liability laws and the effect of these laws on bar and beverage operators today.
- Demonstrate professional disposition and workforce skills in all class activities.

HRM 253 - Catering Management

3 credit hours - one hour lecture, two hours laboratory

Designed to provide students with an overview of catering operations and management. Students prepare a business plan for a small private catering firm as well as review on-premise catering, menu design and pricing, service standards and equipment purchases.

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the origins and evolution of the banqueting industry.
2. Identify the different styles of catering operations and catering equipment.
3. Explain the importance of a proper catering program, including design, pricing, and cost controls.
4. Plan a mock-catering event.
5. Utilize information research skills using library resources and reference books.

HRM 256 - Hotel Property Management

3 credit hours - 45 hours of lecture.

Examine property management concerns for hotels including operational areas like housekeeping, security, risk management and maintenance. Special emphasis is given to hotel front office procedures and hospitality technology and other areas of study include an introduction to labor relations, retention, departmental budgeting, feasibility studies, supply management and business forecasting.

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the role and function of every major department within a hotel property, specifically as it relates to guest services, hotel efficiency and guest satisfaction.
2. Describe the historical development of the hotel industry in the United States, including the role of some of the industry pioneers.
3. Explain the purpose of varied reports and statistical methods of forecasting used to assist management in daily operations and managerial decision-making.
4. Analyze the major challenges facing hotel managers today as they relate to the competition, employee challenges, and economy and consumer demands.
5. Utilize information research skills using library resources and reference books.

HRM 260 - Purchasing and Cost Controls

3 credit hours - 38 hours of lecture, 15 hours of lab; one term.

Learn principles of food and beverage purchasing and cost controls as applied to food-service operations. Study the procurement and control of food, beverage, and labor cost controls. Discuss budgets for food service operations, menu analysis, pricing, and planning. Apply theories of product selection and grading, specifications, production identification, product yield, physical properties, and other factors in lab classroom settings. Lab fee \$100. Prereq(s): *HRM 111 and either HRM 121 or HRM 124 or permission of the Director of the HCAT Institute.* Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify cost control as an important operational function for hospitality operation
- Analyze menus for effectiveness using the menu engineering and analysis process
- Demonstrate ethical and sustainable cost control practices for the hospitality industry
- Examine regulation for inspecting and grading meat, poultry, seafood, eggs, dairy products, fruit, and vegetables
- Demonstrate professional sanitation, demeanor, and workforce skills in all class activities

HRM 275 - Internship in Hotel/ Restaurant Management

3 credit hours - 45 contact hours, 135 internship hours

This course is a planned work-based experience that provides students with an opportunity to fine-tune skill sets learned in coursework and enhance workplace skills through supervised practical experiences related to their career objectives. Prereq(s): *HRM 251 and HRM 260.* Note: *Students registering for this course are required to attend an internship information session (date to be determined).* Enrollment in this internship course requires that students hold an appropriate internship placement in order to receive course credit. Students will be provided with internship opportunities, however, it is the student's responsibility to be interviewed and accepted by the internship agency. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Apply management concepts and duties.
2. Adhere to all standards of internship locations.
3. Utilize critical thinking, product knowledge, and time management skills.
4. Demonstrate professional sanitation, demeanor, and workforce skills in the internship locations.

HRM 280-299 - Special Topics in Hotel /Restaurant Management

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In-depth series of current topics affecting the hospitality industry. Emphasis is given to both national and local hospitality trends such as federal wage guidelines, product development, anti-discrimination laws and other areas not suited to traditional scheduling. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-1,020.

Human Services

HUS 100 - Introduction to Human Services

3 credit hours - Three hours weekly, one term.

Explore Human Services as a profession. Study the evolution and history of Human Services and social welfare policy. Examine the

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Generalist Practice and the role of the Human Service Professional. Investigate professional ethics and values in Human Services, and the underlying philosophies, attitudes, and human service delivery models. Learn skills and intervention strategies, including case management, as well as various approaches to helping. Begin the process of self-awareness and growth in relation to helping others. Prereq(s): *Eligibility for ENG 101/ENG 101A or permission of the department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Explore the historical and political roots of human services as well as current ideological and political influences.
2. Analyze the role of social welfare policy in human services.
3. Reflect on the ethical practice in the helping process by examining the NOHS Code of Ethics.
4. Identify underlying philosophies, attitudes, values, and approaches to understanding human behavior and describe the helping process.
5. Identify specific populations and practice areas in the field of human services: children, adolescents, adults, elderly, child welfare, domestic violence, developmental disabilities, mental health, family services, etc.
6. Examine the various roles of human services workers, including case management, and identify the theoretical perspectives and approaches that influence human services practice.
7. Describe various human services delivery systems and compare models of human services delivery.
8. Examine relevant topics that lead to self-exploration and personal growth by journaling.

HUS 101 - Human Service and Addiction Counseling Ethics in Practice

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Explore current day analysis of the moral, cultural and ethical issues in the human services and addiction counseling fields, as well as an examination of core concepts related to ethics. Examine the consequences of ethical violations in the various areas of human services and addiction counseling. Learn the historical development of informed consent and the "codes of conduct," examining legal obligations and ethical codes, exploring ethical dilemmas and decision making, and becoming a culturally competent worker. Orients students to fieldwork and prepares students for practice in the human services and addiction counseling fields. Prereq(s): *Eligibility for ENG 101/ENG 101A or permission of the department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify human services ethics including standard of care by examining the National Organization of Human Services Code of Ethics and NAADAC Code of Ethics for Addiction Counselors.
2. Define ethics, morals, norms, and values.
3. Describe the process of making an ethical decision and utilize the ethical decision model to analyze sample cases.
4. Identify legal facets of human services and addiction counseling to include laws that govern ethical issues.
5. Identify ethical violations and describe the consequences of those violations.
6. Describe and model the behaviors of a culturally competent practitioner.
7. Prepare for practice in the human services and addiction counseling field placements.

HUS 102 - Physiological Aspects of Chemical Dependence

3 credit hours - 45 hours of lecture; one term.

Examine the physiologic effects of recreational drug use and chemical dependence on the body systems. Classifications of abused drugs (alcohol, narcotics, depressants, stimulants and hallucinogens), basic concepts of the addiction cycle and treatment goals will be discussed. Approved by the Office of Education and Training for Addictions Services (OETAS). Crosslisted: *Also offered as HUS 102H; credit is not given for both HUS 102 and HUS 102H.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain the continuing popularity of mind-altering drugs in the U.S., despite legal, moral and social restrictions.
- Describe drug actions within the human body and the frequently observed components of drug dependency.
- Describe both the desired (by those who use) effects and the destructive effects of depressants, stimulants, psychedelics and over-the-counter and prescribed drugs.

Explain the use and abuse of drugs in specific populations.

HUS 102H - Physiological Aspects of Chemical Dependence – Honors

3 credit hours - 45 hours of lecture; one term.

This is an honors course. Examine the physiologic effects of recreational drug use and chemical dependence on the body systems. Classifications of abused drugs (alcohol, narcotics, depressants, stimulants and hallucinogens), basic concepts of the addiction cycle and treatment goals will be discussed. Approved by the Office of Education and Training for Addictions Services (OETAS). Prereq(s): *Eligibility for Honors courses.* Note: *As part of the course, students will complete a capstone research project: Students will refine their research and critical thinking skills to complete the project successfully.* Also offered as HUS 102; credit is not given for both HUS 102H and HUS 102. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain the continuing popularity of mind-altering drugs in the U.S., despite legal, moral and social restrictions.
- Describe drug actions within the human body and the frequently observed components of drug dependency.
- Describe both the desired (by those who use) effects and the destructive effects of depressants, stimulants, psychedelics and over-the-counter and prescribed drugs.
- Explain the use and abuse of drugs in specific populations.
- Discuss and evaluate efforts to treat and prevent the abuse of alcohol, tobacco and other drugs.

HUS 114 - Counseling, Assessment and Case Management

3 credit hours - three hours weekly; one-term.

Examine professionalism in the counseling field, including professional ethics and legal duties. Identify the components of a helping relationship. Explore counseling and case management skills and techniques. Demonstrate communication skills that enhance the exchange of information including multicultural interviewing techniques. Apply assessment and the subsequent treatment planning skills associated with case management and counseling. Determine and evaluate outcome goals for intervention. Prereq(s): *HUS 101 and HUS 141.* Coreq(s): *HUS 115 or permission of department chair.* Crosslisted: *Also offered as HUS 114H; credit is not given for both HUS 114 and HUS 114H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Describe the roles and functions of professional and paraprofessional persons working in human services agencies.
2. Explain causation of people's needs and delivery of service to meet those needs.
3. Assess client needs by observing and interviewing effectively.
4. Counsel clients effectively given their particular needs.
5. Communicate professionally, both verbally and in writing.

HUS 114H - Counseling, Assessment and Case Management – Honors

3 credit hours - Three hours weekly; one term.

Examine professionalism in the counseling field, including professional ethics and legal duties. Identify the components of a helping relationship. Explore counseling and case management skills and techniques. Demonstrate communication skills that enhance the exchange of information including multicultural interviewing techniques. Apply assessment and the subsequent treatment planning skills associated with case management and counseling. Determine and evaluate outcome goals for intervention. Prereq(s): *Eligibility for Honors Courses and HUS 141 and HUS 101.* Coreq(s): *HUS 115 or permission of department chair.* Note: *Also offered as HUS 114; credit is not given for both HUS 114 and HUS 114H.* As part of the course, students will complete a capstone research project: *Students will refine their research and critical thinking skills to complete the project successfully.* Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Describe the roles and functions of professional and paraprofessional persons working in human services agencies.
2. Explain theories of people's needs, causation of need, and delivery of service to meet needs.
3. Assess client needs by observing and interviewing effectively.

4. Counsel clients effectively given their particular needs.
5. Communicate professionally, both verbally and in writing.

HUS 115 - Fieldwork: Counseling, Assessment and Case Management

3 credit hours - 90 minutes of lecture weekly; 125 hours of supervised fieldwork; one term.

Gain supervised fieldwork placement experience. Implement theories and techniques learned in the lecture class. Lab fee \$15.

Prereq(s): *HUS 101*. Coreq(s): *HUS 114 or HUS 114H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Develop a beginning understanding of the human services delivery processes and experience the professional world of human services.

Develop basic practice skills for working within the human services profession.

Develop basic practice skills in interviewing, assessment, and communication within the human services profession.

Discuss fieldwork issues and experiences with peers.

Identify the ethical, legal, and professional issues that they may encounter in the helping process.

HUS 120 - Developmental Disabilities 1

3 credit hours - One term.

Course imparts the study of mental retardation in terms of the history of mental retardation in the United States, biological and psychosocial causes of mental retardation, and treatment and care of persons with mental retardation. Special attention is paid to definitional framework and developmental issues across the lifespan of persons with both mild and severe mental retardation. Legal and familial issues are reviewed. Prereq(s): *Eligibility for ENG 101/ENG 101A*.

Course Outcomes

Demonstrate an understanding of the historical development of mental retardation in the United States

Name the historical time periods associated with the development of services for persons with mental retardation.

Explain the present supports-based orientation.

Anticipate future perspectives on mental retardation.

Describe terminology, definitions, characteristics, and degrees of mental retardation.

Define mental retardation.

Examine the incidence and prevalence of mental retardation in the United States.

Exhibit an understanding of the biological and psychosocial causes of mental retardation.

Communicate an understanding of the theories of intelligence.

Explain adaptive behavior versus intelligence.

Apply case studies to assess for mental retardation.

Identify characteristics associated with both mild and severe forms of mental retardation.

Discriminate between mild and severe forms of mental retardation.

Outline the behavior, learning, speech, health and educational concerns for a person with mild mental retardation.

Outline the behavior, learning, speech, health, and educational concerns for a person with severe mental retardation.

Demonstrate knowledge of issues across the lifespan of individuals with mental retardation.

Chart lifespan issues for people with mental retardation.

Conceptualize issues faced in preparation for adulthood.

Acquaint self with supportive services in the community.

Demonstrate an understanding of educational, vocational, and career development issues facing individuals with mental retardation.

Cite Public Law 94-142 and its relationship to early intervention programs.

Acknowledge planning and education issues as related to children and adults with mental retardation.

Explore case studies related to educational, vocational and career issues facing people with mental retardation.

Demonstrate knowledge of individual rights and legal issues surrounding persons with mental retardation.

Be aware of the laws related to individuals with disabilities.

Explain reporting of suspected abuse for vulnerable adults.

Outline individual, institutional and community rights.

Explain the impact an individual with mental retardation has on the family system.

- Describe the family reactions to having a family member with mental retardation.
- Elaborate on family dynamics that impact family counseling.
- Explore case studies in family issues.

HUS 122 - Developmental Disabilities 2

3 credit hours - One term.

Course exposes students to the history, causes, identification, and prevention of developmental disabilities. Normal life span development versus developmental delays are reviewed. Genetic and chromosomal abnormalities are discussed, as well as pre- and post-natal socioenvironmental factors. Special attention is paid to autism, seizure disorders and cerebral palsy. Prereq(s): *HUS 120*.

Course Outcomes

Demonstrate an understanding of the etiology of developmental delays.

- Define developmental delays.
- Categorize normal development and abnormal development.
- Conceptualize the prevalence and incidence of developmental delays.

Distinguish between normal development and developmental delays.

Identify genetic and chromosomal birth anomalies and defects.

Compare prenatal, perinatal, and post natal environmental factors in developmental disabilities.

Describe pervasive developmental disorders.

Explain seizure disorders.

Explain the types of cerebral palsy.

Identify appropriate intervention and support services for individuals with developmental delays and their families.

HUS 130 - Introduction to Family Counseling

3 credit hours - three hours weekly

Examine family structure and functions in contemporary American society. Discuss professional ethics and focus on the variables that characterize healthy and unhealthy familiar relationships. Identify techniques, processes, and theoretical approaches that help facilitate change within families. Explore the impact of addiction and recovery on the family. Gain knowledge of the clinical implications of culturally competent counselors. Prereq(s): *HUS 101*. Location(s) Typically Offered: Arundel Mills (AM) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the ethical and professional issues faced by family counselors
2. Apply guidelines for multicultural practice in family counseling
3. Explain the history of systemic family theory and its influence on current theories
4. Identify and apply the major theoretical approaches to family counseling situations
5. Describe the process of change within families
6. Identify and apply the skills and practices of the effective family counselor

HUS 140 - Topics in Alcohol and Drug Counseling: Co-occurring Disorders

3 credit hours - Three hours weekly; one term.

Examines how addictive disorders can mimic a variety of medical and mental health conditions; examines the potential for medical and mental health conditions to coexist with addiction and substance abuse. Recognizes assessment practices and scientifically supported models of treatment for co-occurring disorders and substance related problems. Evidence-based treatment approaches are emphasized. Special populations, such as adolescents, women and persons involved with the criminal justice system with co-occurring disorders are studied. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Acquaint self with diagnostic criteria for substance abuse and mental health disorders.
- Assess co-occurring disorders.
- Utilize treatment programs for persons with co-occurring disorders.

Validate needs of special populations, such as women, adolescents, older adults, and individuals involved with the criminal justice system.

Engage in culturally sensitive counseling practices.

Assist clients in obtaining community resources.

HUS 141 - Group Dynamics

3 credit hours - Three hours of lecture weekly; one term.

Examine the theories of group structure, function, interaction, roles and leadership. Study these topics through classroom activity, reading and group participation. Discuss process and interaction as they occur in the life of the group. Recognize various types of groups in use for training, education and treatment. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Analyze the ethical, legal and professional issues in group practice.
2. Describe what it means to be a culturally responsive group counselor.
3. Identify the stages of group development, describing the behaviors that contribute to each stage.
4. Develop and design the procedures for forming and using groups.
5. Identify and demonstrate the skills and practices of effective group leadership.
6. Discuss various types of groups.

HUS 150 - Introduction to Aging Studies

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Examine the myths, demographics, psychosocial perspectives and biomedical aspects of growing old in America. Discuss issues impacting older persons including economics, politics, religion, leisure, social/living environment, intimacy and sexuality, health care and death and dying. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as SOC 150; credit is not given for both HUS 150 and SOC 150*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Analyze one's own sociocultural experience and one's own biological and psychological background and characteristics to explain one's attitudes about aging
- Discuss major concepts and tools used in the study of human aging
- Define major sociocultural, psychological, and biological concepts and theories relative to human aging
- Describe the interrelationships of biological, psychological, and sociocultural aspects of human aging.
- Discuss the theories and concepts appropriate to the economics and politics of aging
- Compare the diversity of the aging experience across ethnic, race, class, and gender lines
- Use technology to retrieve, interpret, and analyze data and write reports
- Apply logical and rational problem solving to issues in aging.

HUS 200 - Addiction Treatment Delivery

3 credit hours - Three hours weekly; one term.

Examines the systematic approach to screening and assessment of individuals thought to have a substance abuse disorder, who are being considered for admission to addiction-related services, or who are presenting in a crisis situation. Application of the use of various substance abuse, addiction, and mental health screening and assessment instruments is practiced. Collaborative treatment planning, case management, and referral skills are highlighted. Client advocacy is emphasized. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Conduct a screening.
- Complete an intake assessment.
- Practice crisis prevention and management.

Conduct an assessment and know how to make a diagnosis of substance abuse and co-occurring disorders.
Prepare a treatment plan.
Provide education and advocacy services to clients.

HUS 211 - Crisis Intervention and Counseling

3 credit hours - Three hours weekly; one term.

Examine underlying principles of crisis intervention including situational crisis, developmental crisis, and special populations. Learn specific crisis assessments and case management techniques, and practice skills in interviewing, individual and group crisis intervention and counseling. Determine and apply professional ethics in hypothetical case situations. Prereq(s): *Eligibility for ENG 101/ENG 101A, completion of HUS 114 or appropriate experience, e.g., employment that calls for interviewing and counseling, or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Outline the major assumptions of crisis theory.
- Differentiate between developmental life crisis and situational life crisis.
- Explain both the first- and second-order intervention models.
- Explain the five components of first-order interventions and the associated helper behaviors.
- Explain the process of lethality assessment.
- Describe and demonstrate first-order intervention and lethality assessments in role-play situations relative to individuals in crisis.
- Apply professional ethics in hypothetical case situations.
- Outline the various components of case management planning to include conducting need assessments, developing a plan and monitoring services and following the client.
- Demonstrate the ability to develop and implement a case management plan.

HUS 216 - Theories of Counseling

3 credit hours - Three hours weekly; one term.

Surveys the major theories of counseling and their theorists. Introduces students to the application of various counseling techniques and procedures used for behavior change. In class, students examine case studies and practice delivery of the counseling modalities. Emphasis is on professional values and ethics. Prereq(s): *HUS 115 or permission of department chair.* Coreq(s): *HUS 217 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Review legal and ethical issues in counseling.
- Identify and understand the different theories and techniques of counseling.
- Compare and contrast the various theories of counseling.
- Identify the effectiveness of the different techniques of counseling and specific populations in which techniques are used for.
- Understand how to apply the various techniques and procedures used in behavior change.

HUS 217 - Fieldwork: Theories of Counseling

3 credit hours - 125 hours of supervised fieldwork and 90 minutes of lecture weekly; one term.

Gain supervised fieldwork placement experience. Implement theories and techniques learned in the lecture class. Prereq(s): *HUS 115.* Coreq(s): *HUS 216 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Develop a beginning understanding of the human services delivery processes and experience the professional world of human services.
- Develop basic practice skills for working within the human services profession.

Develop basic practice skills in interviewing, assessment, and communication within the human services profession.

Discuss fieldwork issues and experiences with peers.

Identify the ethical, legal and professional issues that they may encounter in the helping process.

HUS 234 - Trauma Informed Care

2 credit hours - Two hours weekly, one term

Examine the concept of trauma, its prevalence among clients of human service organizations and its profound effect on client outcomes. Recognize sources of trauma such as childhood neglect, homelessness, drug addiction, mental illness, sexual abuse, frequent incarceration and other types of trauma-inducing experiences. Apply effective trauma informed care practices and strategies.

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Describe different types of trauma and how exposure to trauma can limit positive outcomes for children, adults, and families.
2. Examine the prevalence of trauma among children, adults, and families,.
3. Discuss the effect of a history of trauma on children, adults, and families.
4. Assess and modify current organizational programs, products, services, protocols, and forms via the Trauma Informed methodology.
5. Use the Trauma Informed methodology to counsel children and families who have histories of trauma and promote positive outcomes.

HUS 240 - Gambling Addiction

3 credit hours - Three hours weekly; one term

Examine gambling addiction from biological, psychological, and social perspectives. Gain knowledge and clinical understanding related to the etiology and prevention of this addiction, as well as identification and treatment of those with a pathological gambling disorder. Explore and apply clinical screening tools, diagnostic criteria and interventions through case studies. Investigate personal, familial and social consequences of problem gambling. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

HUS 275 - Human Services Practicum

3 credit hours - One hour of seminar and 10-12 hours per week in the field ; one term.

Earn credit for human services-related work. Develop specific learning objective and explore career goals. Prereq(s): *HUS 101 or permission of academic chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the role and functions of a human services worker in the agency in which the student is placed
2. Perform the role of a human services worker in the agency in which the student is placed and function effectively as a member of the agency team
3. Identify the roles and functions of the professionals and paraprofessionals working in the agency
4. Discuss the application of academic learning to the work of the agency
5. Identify career development goals and objectives

HUS 276 - Human Services Practicum 2

3 credit hours - One hour of seminar and 10-12 hours per week in the field; one term.

Earn credit for human services-related work. Develop specific learning objective and explore career goals. Prereq(s): *HUS 101 or permission of department chair and HUS 275.* Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the role and functions of a human services worker in the agency in which the student is placed
2. Perform the role of a human services worker in the agency in which the student is placed and function effectively as a member of the agency team
3. Identify the roles and functions of the professionals and paraprofessionals working in the agency
4. Discuss the application of academic learning to the work of the agency
5. Identify career development goals and objectives

HUS 280-299 - Special Topics in Human Services

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Courses developed to provide current or specialized information in human services, as needed. Offered are such topics as substance abuse, burnout or stress management which serve special groups or require nontraditional scheduling. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Prereq(s): *HUS 114, PSY 111 or permission of department chair.*

Humanities

HUM 101 - Introduction to Fine Arts

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study of the nature of visual, performing and literary arts and of changing roles of art, artist and audience. Slides, videotapes, films and live performances supplement reading. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Describe orally and in writing the purposes and functions of art in Western and non-Western cultures and in traditional and modern cultures;
2. Describe orally and in writing the formal elements of the various spatial, temporal, and performing arts media;
3. Analyze, interpret and evaluate works of art as aesthetic experience and intellectual expression and to articulate those responses orally and in writing;
4. Describe orally and in writing various theories of creativity.

HUM 151 - American Folk Arts

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Multidisciplinary study of American oral folk traditions (folklore, customs and music) and material culture (folk design in furniture, pottery, wood carving and textiles and the painting of the untrained artist).

Course Outcomes

Upon successful completion of this course, the student should be able to:

1. Demonstrate orally and in writing an understanding of the nature of folk communities, folk culture, folk transmission and the ways in which folk patterns continue to shape our identities and our culture;
2. Recognize and interpret examples of the traditional and modern genres of American oral and material folk art as part of a community's values and ideas;
3. Recognize and evaluate the elements of design and the aesthetics of the folk artist in order to understand the nature of art;
4. Articulate personal responses to art and demonstrate an understanding of folk art forms as avenues of self-expression.

HUM 210 - Images of Women

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Gain a multidisciplinary overview of the portrayal of women in the humanities. Emphasize the understanding of women as defined by mythological, religious, philosophical and artistic traditions. Crosslisted: *Also offered as GSS 210; credit is not given for both HUM 210 and GSS 210.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student should be able to:

1. Explain how women were portrayed and defined in representative works from Western mythology, religion, philosophy and art;
2. Articulate the role of imagery and symbolism in the construction of gender;
3. Exemplify the contradictions between women's lived experiences and cultural images of women;
4. Name and describe historical and contemporary contributions of women in the humanities.

Internship Experience

IEX 275 - Internship Experience 1

3 credit hours -

Gain college credit for an internship experience. This is for students whose area of study does not include an internship course; 120 hours of work-based learning cumulatively during the internship combined with one hour of faculty contact weekly during the experience. Credit is earned for area-related work experience based on specific learning objectives. Prereq(s): (1) *Successful completion of 3 credit hours in area of study related to the internship experience*; (2) *minimum grade point average of 2.5*; and (3) *approval of faculty advisor and department chair or academic dean prior to enrollment*. Note: *Students are strongly encouraged to consult with the Internship office to explore this opportunity.*

IEX 276 - Internship Experience 2

3 credit hours -

Gain college credit for an internship experience. This is for students whose area of study does not include an internship course and who have successfully completed IEX 275; 120 hours of work-based learning cumulatively during the internship combined with one hour of faculty contact weekly during the experience. Credit is earned for area-related work experience based on specific learning objectives. Prereq(s): (1) *Successful completion of 3 credit hours in area of study related to the internship experience*; (2) *minimum grade point average of 2.5*; (3) *successful completion of IEX 275*; and (4) *approval of faculty advisor and department chair or academic dean prior to enrollment*. Note: *Students are strongly encouraged to consult with the Internship office to explore this opportunity.*

IEX 277 - Internship Experience 3

3 credit hours -

Gain college credit for an internship experience. This is for students whose area of study does not include an internship course and who have successfully completed IEX 275 and IEX 276; 120 hours of work-based learning cumulatively during the internship combined with one hour of faculty contact weekly during the experience. Credit is earned for area-related work experience based on specific learning objectives. Prereq(s): (1) *Successful completion of 3 credit hours in area of study related to the internship experience*; (2) *minimum grade point average of 2.5*; (3) *successful completion of IEX 276*; and (4) *approval of faculty adviser and department chair or academic dean prior to enrollment*. Note: *Students are strongly encouraged to consult with the Internship office to explore this opportunity.*

Library Information

LIB 115 - Critical and Creative Thinking in the Information Age

3 credit hours - Three hours weekly; one term.

Formerly PHL 100-Critical Thinking This course meets the Arts & Humanities General Education Requirement. Acquire and develop skills that foster more critical and creative thinking. Learn to analyze arguments, evaluate evidence, and find and use information effectively and ethically to shape and support thinking. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as PHL 115; credit is not given for both LIB 115 and PHL 115.*

Course Outcomes

Evaluate the validity of arguments.

Apply dispositional skills to enhance creativity and critical thinking.

Find authoritative, reliable, and relevant information to inform and support ideas and arguments.

Use information effectively and ethically when presenting ideas and arguments.

Massage Therapy

MAS 100 - Introduction to Massage

1 credit hour - 15 hours of lecture.

Introduces the background, terminology, legal requirements, career opportunities and ethics of therapeutic massage for the professional or nonprofessional. Discusses introductory body mechanics. Helps students determine if they want to pursue therapeutic massage as an avocation or vocation. Prepares the student for MAS 110. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes:

Upon successful completion of this course, students will be able to:

1. Define the role of a massage therapist as a member of the health care professions.
2. Demonstrate a working knowledge of the systemic, structural and psychological effects of various massage techniques.
3. Discuss basic cautions and contraindications to massage.
4. Define ethics and discuss the importance of ethical behavior as both a massage therapy student and a professional massage therapist.
5. Define the costs and procedures required to become a massage therapist in Maryland.

MAS 108 - The Science of Massage Therapy

4 credit hours - Four hours lecture weekly; one term.

Develop an understanding of the structure and function of the systems of the body, including basic concepts of energetic anatomy, as it relates to the safe and effective application of massage and bodywork techniques. Examine current research to identify the physiological and psychological effects of soft tissue manipulation. Discuss a holistic view of the body, while exploring the impact of touch and specific massage and bodywork techniques on the mind-body connection. Location(s) Typically Offered: Online (OL)

Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify and describe the anatomical organization and general physiological principles of the human body, including basic concepts in energetic anatomy.

For all systems of the body, identify, locate and describe the basic structures and general functions.

Identify and describe the physiological and psychological effects of soft tissue manipulation through a review of current research.

Identify specific indications, cautions, and contraindications to massage and bodywork and understand the physiological rationale behind the safe and effective application of massage.

Discuss a holistic view of the structure and function of the human body, while exploring the impact of touch and specific massage and bodywork techniques on the mind-body connection.

MAS 110 - Fundamentals of Massage Therapy

7 credit hours - 60 hours of lecture and 90 hours of college laboratory.

Formerly MAS 110 - Swedish Massage Learn musculoskeletal anatomy for the massage therapist, and the basic theory and techniques necessary for administering Swedish relaxation massage. Lab fee \$60. Prereq(s): MAS 100 with a grade of C or better; admission into the Massage Therapy Program. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Demonstrate competency in Swedish massage technique

Demonstrate knowledge of anatomy and physiology as it particularly relates to the muscular, skeletal and nervous systems

Discuss the professionalism, legal and ethical issues in practicing therapeutic massage

Discuss techniques other than Swedish massage in the context of bodywork

Identify pathological conditions generally as they affect Swedish massage

MAS 111 - Intermediate Massage Therapy

6 credit hours - 60 hours of lecture and 60 hours of college laboratory; one term.

Learn pathology for massage therapists. Gain intermediate training in soft tissue and movement modalities. Enhance the ability to utilize creative problem-solving skills through practical applications. Learn the techniques that are necessary for deep tissue massage therapy. Lab fee \$60. Prereq(s): A grade of C or better in MAS 108 and MAS 110. Coreq(s): MAS 120. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate competency in deep tissue massage techniques and an understanding of the physiological effects of these techniques.
2. Demonstrate knowledge of anatomy and physiology as it relates to the muscular, skeletal and nervous systems.
3. Discuss the significant systemic and local pathological conditions that massage therapists may encounter in their clients.
4. Compare and contrast the techniques and results of soft tissue manipulation, neuromuscular and muscle energy bodywork.
5. Integrate Swedish, Deep Tissue and muscle energy techniques into a massage session specifically designed to meet the needs of the specific client.
6. Discuss the professional, legal and ethical issues surrounding a massage practice.

MAS 117 - Kinesiology for Massage Therapists

3 credit hours - 30 hours of lecture and 30 hours of lab; one term.

Study human movement in the context of the practice of therapeutic massage. Analyze posture, gait and activities of daily living. Learn manual muscle testing as a client assessment tool. Prereq(s): *MAS 110 or permission of the Academic Chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate knowledge of the terms and concepts related to kinesiology and biomechanics, and describe their relationship and relevance to the practice of therapeutic massage.
2. Describe the role that connective tissue, joints, muscles, and nerves play in human movement.
3. Demonstrate knowledge of the names, locations, and actions of all major muscles in the body.
4. Define biomechanical principles such as statics, dynamics, force, inertia, torque, vectors, friction, velocity, and momentum, along with the laws of motion.
5. Observe and analyze posture, gait and activities of daily living using kinesiology and biomechanics principles.
6. Assess possible causes of client pain and restriction of movement through range-of-motion and manual resistance testing.
7. Use critical thinking to design treatment plans to help clients improve posture, gait, and comfort with movement.

MAS 118 - Business for Bodyworkers

2 credit hours - 30 hours of lecture; one term.

Learn the foundation of successfully managing a bodywork business. Addresses Federal and State taxes and reporting (including Social Security and Medicare), record keeping, accounting, business structures, developing a business plan, marketing, being or hiring an independent contractor, third party billing and accepting credit cards. Students will prepare and present a financial business plan for their business. Provides 30 continuing education hours for NCBTMB and State of Maryland massage therapists. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Retrieve Federal and State tax information

Access Federal and State web pages relative to Income and Sales Tax

Access EFTPS to set up electronic payment ability

Summarize issues of Independent Contractor status from a legal and tax perspective

Access IRS web page to determine threshold issues for defensible Independent contractor

Summarize issues surrounding being or hiring an independent contractor

Discuss the decision points on hiring an independent contractor

Create a financial business plan specific to the student

Discuss record keeping and accounting as it impacts a bodyworkers business

Discuss record keeping and accounting as it impacts a bodyworkers business

Retrieve Social Security information on calculation, reporting and payment

Access Social Security Administration web pages to determine rates, ceiling, payments, etc.

Discuss the rationale for different business structure choices

Identify the business structure most appropriate for the specific student

Identify the business structure most appropriate for the specific student

Formulate the most appropriate marketing options from a cost/benefit perspective

Formulate the most appropriate marketing options from a cost/benefit perspective

Research credit card processing alternatives

Access Buyerzone.com to secure quote for offering credit card services

Analyze which offer is best suited to the student's business

MAS 119 - Massage and Bodywork Specialized Modalities

3 credit hours - 30 hours lecture, 32 hours lab, 8 hours of clinic; one term

Explore massage and bodywork modalities such as sports massage, spa and aromatherapy massage, hot stone massage, foot reflexology, chair massage, and energy work. Learn how to integrate these specialized modalities into massage therapy practice.

Discuss how to find reputable continuing education courses to obtain advanced training in a variety of specialized modalities. Lab fee \$25. Prereq(s): *A grade of C or better in MAS 110, or permission of the Academic Chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain the difference between massage and bodywork.
- Classify various types of massage therapy and bodywork.
- Define and describe specialized massage and bodywork modalities and their applications and benefits.
- Identify the cautions and contraindications for a variety of specialized modalities.
- Practice introductory techniques of each modality presented.
- Integrate various modalities into client-centered massage therapy sessions.
- Identify options for continuing education for advanced training in a variety of specialized modalities.

MAS 120 - Massage Therapy Clinic 1

1 credit hour - 5 hours of lecture, 45 hours of clinic; one term.

Practice Massage Therapy techniques and gain experience providing massage therapy to clients in a clinic setting. Lab fee \$20.

Prereq(s): *MAS 110.* Coreq(s): *MAS 111.* Note: *Specific clinic hours will vary from week to week based on appointment schedule.*

Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Conduct a thorough client interview in a student massage clinic setting.
2. Develop and execute a complete plan of care for each massage session using techniques learned in MAS 110 and MAS 111.
3. Complete thorough documentation of each individual clinic massage session.

MAS 213 - Advanced Massage Therapy

6 credit hours - 60 hours of lecture, 60 hours of lab, 10 hours of clinic; one term.

Formerly MAS 113 Advanced Massage Techniques Learn advanced techniques in soft tissue manipulation. Utilize creative and integrative problem-solving skills through client-assessment and practical applications. Examine and perform techniques necessary for myofascial massage, pregnancy massage and oncology massage, and massage in health care settings. Lab fee \$60. Prereq(s): *A grade of C or better in MAS 111.* Coreq(s): *MAS 220.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Apply myofascial massage techniques as part of a massage therapy session.
- Discuss ethical issues as they relate to massage therapy.
- Discuss diversity, equity, inclusion and cultural competency for the massage therapist.
- Recognize cautions and contraindications and demonstrate techniques for pregnancy massage and oncology massage.
- Discuss acute pathology, medical devices and environmental considerations and practice performing massage therapy in a simulated hospital setting
- Apply assessment tools and techniques to develop a client-centered massage therapy session.

MAS 220 - Massage Therapy Clinic 2

1 credit hour - 4 hours of lecture, 46 hours of clinic; one term.

Gain additional practice and experience in massage therapy techniques and provide massage therapy to clients in a clinic setting. Lab

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fee \$20. Prereq(s): *MAS 111 and MAS 120*. Coreq(s): *MAS 213*. Note: *Specific clinic hours will vary from week to week based on appointment schedule*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Conduct a thorough client interview in a student massage clinic setting.
- Develop and execute a complete plan of care for each massage session using techniques learned in previous courses.
- Complete thorough documentation of each individual clinic massage session.

MAS 225 - Licensing Exam Prep

1 credit hour - 15 hours lecture; one term

Review content of the Massage and Bodywork Licensing Exam (MBLEx) with practice questions and a simulated practice test. Review the Maryland state regulations to prepare for the Jurisprudence exam. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate an understanding of the content areas of the Massage and Bodywork Licensing Exam (MBLEx) through successful completion of review activities.
- Complete Massage and Bodywork Licensing Exam (MBLEx) practice quizzes and exams with a passing score.
- Explain the Maryland Board of Massage Therapy Examiners laws and regulations.
- Locate specific laws and regulations in the Code of Maryland Regulations.

MAS 280-299 - Special Topics in Massage Therapy

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A focused study of massage therapy topics not emphasized in introductory courses. Some offerings may be designed for specific audiences. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-100. Prereq(s): *Permission of the program coordinator*.

Mathematics

MAT 005 – Arithmetic

1 equivalent hour - Two hours weekly; one eight week session.

Develop proficiency in arithmetic topics such as whole numbers, fractions, decimals, percents, ratio and proportion, measurement and reading graphs. Lab fee \$25. Note: *MAT 005 is not included in the developmental sequence of courses leading to eligibility for credit level mathematics*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Perform fundamental operations with whole numbers, fractions, decimals, and exponents.
- Solve application problems involving whole numbers, fractions, and decimals.
- Solve problems involving ratio and proportion.
- Solve problems involving percents.
- Perform calculations with measurements.
- Analyze data and interpret graphs.

MAT 011E - Beginning Algebra, Two-Week Extension

1 equivalent hour - Eight hours weekly; one two week term.

Continue studying a portion of the topics in MAT 011 which may include solving equations and applications, graphing, polynomial

operations and factoring polynomials. Prereq(s): *Students must have successfully completed the minimum required coursework in a computer-intensive section of MAT 011. Permission of instructor required.*

Course Outcomes

- Analyzes real numbers, numerical expressions, and algebraic expressions.**
- Solves linear equations, inequalities, and associated word problems in one variable.**
- Graphs data and linear equations, in two variables, in a rectangular coordinate system.**
- Solves systems of linear equations and inequalities in two variables and associated word problems.**
- Analyzes exponential expressions and polynomials.**
- Factors and solves quadratic and higher degree polynomial equations.**
- Performs the four basic operations with rational expressions.**

MAT 012E - Intermediate Algebra, Two-Week Extension

4 credit hours - Four hours weekly; one term.

Examine two- and three-dimensional shapes, measurement, dimensional analysis, congruence and similarity, and coordinate and transformational geometry. Use computers to explore geometric concepts. Apply problem-solving techniques within each topic.

Prereq(s): *Achieve an appropriate score on the mathematics part of the ACT or SAT, or score at an appropriate level on the Mathematics Placement Test, or completion of MAT 012 or MAT 012E with a grade of at least C, or successful completion of an approved mathematics preparation course.* Crosslisted: *Also offered as MAT 222H; credit is not given for both MAT 222 and MAT 222H.* Note: *Primarily for students in the elementary education and early childhood education programs. Although MAT 221 and MAT 222 can be taken in either order, the sequential order is recommended.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply problem solving techniques and prove simple geometric theorems.
- Solve problems involving proportional reasoning.
- Solve geometric problems using coordinate geometry and algebra.
- Use precise language and notation to describe shapes.
- Use technology to explore and check properties of geometry.
- Identify and apply measurements for length, area, and volume.
- Identify, compare, and transform geometric figures.
- Apply the theory of rigid and non-rigid transformations to explore properties of shapes.
- Apply properties of congruence to geometry problems.

MAT 034 - Quantitative Foundations

4 equivalent hours - Four hours weekly; one term.

Study foundational algebraic and numeric topics essential in preparing students for MAT 135 or MAT 100 or MAT 133. Explore topics involving quantitative relationships, algebraic reasoning, functional reasoning, and probabilistic and statistical reasoning. Incorporate problem-solving skills, quantitative communication skills, and the use of technology. Lab fee \$25. Prereq(s): *Achieve an appropriate score on the Mathematics Placement Test, or successful completion of an approved mathematics preparation course.*

Note: *A grade of at least C in MAT 034 is required to enroll in MAT 100, MAT 133, MAT 135 or MAT 135H. Either MAT 034 or MAT 035 serves as a prerequisite for MAT 135 or MAT 135H. Students should enroll in only one of MAT 034 or MAT 035.*

Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Use number concepts to describe quantitative relationships in a variety of contexts.
- Explain mathematical concepts using appropriate symbolic notation and vocabulary.
- Solve equations through manipulation using appropriate mathematical techniques and technology.
- Solve word problems in various contexts.
- Interpret the solutions to word problems using mathematical concepts with appropriate terms and units.
- Solve systems of two equations graphically and algebraically.
- Interpret the results of solved systems of two equations in an appropriate manner.

Recognize whether a linear or non-linear mathematical model is appropriate.
Use the appropriate linear or non-linear model to represent the relationships between variables.
Summarize and interpret data using graphs, tables, technology, and statistics (including measures of central tendencies and dispersion).
Collect appropriate data to make reasonable conclusions by employing appropriate numeric and algebraic concepts.
Use data to make reasonable conclusions by employing appropriate numerical and algebraic concepts.

MAT 035 - Pre-Statistics

2 equivalent hours - Two hours weekly; one term.

Study foundational algebraic and numeric topics essential in preparing students for Statistics (MAT 135) including quantitative relationships, algebraic reasoning, functional reasoning, and probabilistic and statistical reasoning. Incorporate problem-solving skills, quantitative communication skills, and the use of technology. Prereq(s): *Achieve an appropriate score on the Mathematics Placement Test, or completion of MAT 011 with a grade of at least C, or successful completion of an approved mathematics preparation course.* Note: *MAT 035 and MAT 135 or MAT 135H may be taken in the same semester. A grade of at least C in MAT 035 is required to start MAT 135. Either MAT 034 or MAT 035 serves as a prerequisite for MAT 135 or MAT 135H. Students should enroll in only one of MAT 034 or MAT 035.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Perform basic algebraic operations on real numbers.
- Use linear equations and models in slope-intercept form.
- Apply basic probability theory to solve problems.
- Create graphs by organizing data and computing descriptive statistics.
- Interpret graphs displaying descriptive statistics.
- Use technology to enter, display, and analyze data.

MAT 036 - Foundations of College Algebra

4 equivalent hours - Four hours weekly; one term.

Study pre-algebra and beginning algebra topics necessary to succeed in College Algebra. Topics include operations on real numbers; simplifying expressions; solving first-degree equations, inequalities and application problems; graphing linear equations; simplifying exponents; operations on polynomials; and factoring polynomials. Prereq(s): *Achieve an appropriate score on the Mathematics Placement Test, or successful completion of an approved mathematics preparation course.* Note: *A grade of at least C in MAT 036 is required to enroll in MAT 037.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon completion of this course, a student will be able to:

- Perform basic operations on fractions and decimals.
- Perform basic operations on real numbers.
- Simplify algebraic expressions.
- Solve linear equations, inequalities, and application problems.
- Write linear equations in two variables.
- Graph linear equations in two variables.
- Simplify exponential expressions.
- Perform basic operations on polynomial expressions.
- Factor polynomials.

MAT 037 - Introduction to College Algebra

2 equivalent hours. - Two hours weekly; one term.

Study intermediate algebra topics supporting the problem-solving skills required for College Algebra. Topics include linear, rational, radical, quadratic, exponential and logarithmic equations and functions; systems of linear equations; graphing linear and non-linear functions; and inequalities. A brief review of Beginning Algebra topics is also included. Prereq(s): *Achieve an appropriate score on the Mathematics Placement Test, or completion of MAT 011 or MAT 036 with a grade of at least C, or successful completion of an*

approved mathematics preparation course. Note: MAT 037 and MAT 137 may be taken in the same semester. A grade of at least C is required in MAT 037 in order to start MAT 137. Location(s) Typically Offered: Arnold Main Campus (MC), Glen Burnie (GB), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon completion of this course, a student will be able to:

- Perform basic operations with polynomial, rational, radical, logarithmic, and exponential expressions.
- Solve linear, quadratic, and rational equations.
- Solve systems of linear equations.
- Use function notation and basic terminology associated with functions.
- Graph linear and nonlinear functions.

MAT 044 - Precalculus Foundations

4 equivalent hours - Four hours weekly; one term.

Study and apply pre-algebra, beginning, and intermediate algebra topics such as operations on integers, fractions, and decimals; simplifying numerical and algebraic expressions with exponents, including rational exponents; writing and graphing linear equations in two variables; algebra of polynomial, rational, and radical expressions; factoring polynomials; solving linear and quadratic equations; solving linear inequalities; graphing linear and nonlinear functions. Prereq(s): *Appropriate score on AACC's mathematics placement measures, or successful completion of an approved mathematics preparation course. Note: A grade of at least C is required to enroll in MAT 045.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Perform arithmetic operations on real numbers.
2. Simplify linear, polynomial, rational, and radical expressions.
3. Graph linear equations.
4. Factor polynomials.
5. Solve linear and quadratic equations.
6. Graph linear and non-linear functions.

MAT 045 - Introduction to Precalculus

3 equivalent hours - Three hours weekly; one term.

Study intermediate algebra topics focused on the essential skills and applications required for MAT 145 - Precalculus 1. Topics include algebra of linear, rational, and radical expressions; algebra, composition, and inversion of functions; quadratic, rational, radical, absolute value, and systems of linear equations; linear, compound, and absolute value inequalities; and graphing linear, nonlinear, quadratic, exponential and logarithmic functions, including translations and reflections, and systems of inequalities. Prereq(s): *Appropriate score on AACC's mathematics placement measures, or completion of MAT 044 with a grade of C or higher, or successful completion of an approved mathematics preparation course. Note: MAT 045 and MAT 145 may be taken in the same semester. A grade of at least C is required in MAT 045 to start MAT 145.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Simplify radical, exponential, logarithmic, and rational expressions.
2. Solve systems of linear equations.
3. Solve quadratic, polynomial, rational, radical, and absolute value equations
4. Solve linear and absolute value inequalities.
5. Find the sum, difference, product, quotient, and composition of two functions.
6. Find the inverse of a one-to-one function.
7. Graph linear, quadratic, exponential, and logarithmic functions.

MAT 100 - The Nature of Mathematics

3 credit hours - Three hours weekly; one term.

This course meets the Mathematics General Education Requirement. Encounter mathematical reasoning through an exposure to

inductive methods, problem-solving techniques and the organization of information to discover patterns. Explore geometric topics and the connections between mathematics, the arts, and the social sciences. Study topics such as management science, sequences, fractals, mathematics of finance, probability and statistics. Prereq(s): *Achieve an appropriate score on the mathematics part of the ACT or SAT, or score at an appropriate level on the Mathematics Placement Test, or completion of MAT 034 or MAT 012 or MAT 012E or MAT 013B with a grade of at least C, or successful completion of an approved mathematics preparation course.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply appropriate modeling methods to solve real world problems.
- Apply elements of management science to solve routing and planning problems.
- Recognize patterns and represent those relations symbolically.
- Interpret mathematical information presented verbally, numerically, graphically, and symbolically.
- Draw inferences from mathematical models such as formulas, graphs, and tables.
- Describe how mathematics is employed in diverse areas such as art, architecture, the social sciences, and nature.
- Apply interest formulas to solve problems involving savings and loans.
- Solve problems involving what one can afford to achieve a financial goal.

MAT 133 - Finite Mathematics

3 credit hours - Three hours weekly; one term.

This course meets the Mathematics General Education Requirement. Learn functions and linear models, systems of linear equations and matrices, inequalities and linear programming, mathematics of finance, sets and counting, probability and data analysis. Apply these topics to economics, business and social science. Prereq(s): *Achieve an appropriate score on the mathematics part of the ACT or SAT, or score at an appropriate level on the Mathematics Placement Test, or completion of MAT 034 or MAT 012 or MAT 012E or MAT 013B with a grade of at least C, or successful completion of an approved mathematics preparation course.* Note: *Credit is not given for both MAT 133 and MAT 233.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, students will be able to:

- Use linear models to solve real-life situations.
- Solve applications involving matrices by using the Gauss-Jordan method.
- Solve linear programming problems using the graphical approach.
- Solve problems involving the mathematics of investments and loans.
- Use set theory, the principles of counting, and probability concepts to calculate probabilities.
- Organize, analyze, and interpret numerical data.

MAT 135 – Statistics

3 credit hours - Three hours weekly; one term.

This course meets the Mathematics General Education Requirement. Use meaningful data to explore concepts in probability and statistics including measures of central tendency and dispersion. Develop statistical literacy by studying graphical representations of data, discrete and continuous probability distributions, and sampling techniques and theory. Construct and interpret confidence intervals, find lines of best-fit, and perform hypothesis tests for means, proportions, and independence. Technology use is required throughout the course for statistical analyses. Prereq(s): *Achieve an appropriate score on the mathematics part of the ACT or SAT, or score at an appropriate level on the Mathematics Placement Test, or completion of MAT 012 or MAT 012E or MAT 013B or MAT 034 or MAT 035 or MAT 137 with a grade of at least C, or successful completion of an approved mathematics preparation course.* Crosslisted: *Also offered as MAT 135H; credit is not given for both MAT 135 and MAT 135H, or for both MAT 135 and MAT 223.* Note: *MAT 035 and MAT 135 may be taken in the same semester. A grade of at least C in MAT 035 is required to start MAT 135.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Compute descriptive statistics and use them to organize data, and create and interpret graphs.

Apply probability theory and solve problems using appropriate discrete or continuous probability distributions.
 Identify sampling techniques and model sampling distributions.
 Compute confidence intervals and lines of best-fit, and perform hypothesis tests for population means and proportions.
 Interpret and summarize statistical analyses using appropriate notation and terminology.
 Enter, display, and analyze data-using technology.

MAT 135H - Statistics – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Mathematics General Education Requirement. Use meaningful data to explore concepts in probability and statistics including measures of central tendency and dispersion. Develop statistical literacy by studying graphical representations of data, discrete and continuous probability distributions, and sampling techniques and theory. Construct and interpret confidence intervals, find lines of best-fit, and perform hypothesis tests for means, proportions and independence. Technology use is required throughout the course for statistical analyses. Prereq(s): *Eligibility for honors courses; achieve an appropriate score on the mathematics part of the ACT or SAT, or score at an appropriate level on the Mathematics Placement Test, or completion of MAT 012 or MAT 012E or MAT 013B or MAT 034 or MAT 035 or MAT 137 with a grade of at least C, or successful completion of an approved mathematics preparation course.* Crosslisted: *Also offered as MAT 135; credit is not given for both MAT 135H and MAT 135, or for both MAT 135H and MAT 223.* Note: *Extra assignments and class meeting times may be required. MAT 035 and MAT 135H may be taken in the same semester. A grade of at least C in MAT 035 is required to start MAT 135H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Compute descriptive statistics and use them to organize data, and create and interpret graphs.
 Apply probability theory and solve problems using appropriate discrete or continuous probability distributions.
 Identify sampling techniques and model sampling distributions.
 Compute confidence intervals and lines of best-fit, and perform hypothesis tests for population means and proportions.
 Interpret and summarize statistical analyses using appropriate notation and terminology.
 Enter, display, and analyze data using technology.

MAT 137 - College Algebra

3 credit hours - Three hours weekly; one term.

This course meets the Mathematics General Education Requirement. Learn algebra concepts useful in the fields of business, social science, life science and health science. Study functions and their applications including linear, quadratic, higher-degree polynomial, rational, exponential and logarithmic functions. Solve systems of linear and non-linear equations and inequalities. Explore matrices, sequences and series. Prereq(s): *Achieve an appropriate score on the Mathematics Placement Test, or a grade of C or higher in MAT 037, or successful completion of an approved mathematics preparation course.* Note: *MAT 037 and MAT 137 may be taken in the same semester. A grade of at least C is required in MAT 037 in order to start MAT 137. Credit will not be given for both MAT 137 and MAT 145.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Solve linear, quadratic, rational, radical, logarithmic, and exponential equations.
 Graph linear, quadratic, higher-degree polynomial, piecewise, rational, logarithmic, and exponential functions.
 Apply linear, polynomial, logarithmic, and exponential functions to problems from business, social science, life science, and health science.
 Solve systems of linear and non-linear equations and inequalities.
 Perform simple matrix operations.
 Solve systems of linear equations using matrix techniques.

MAT 145 - Precalculus 1

3 credit hours - Three hours weekly; one term.

Formerly MAT 141 - College Algebra and Trigonometry 1 This course meets the Mathematics General Education Requirement. Learn college algebra and introductory trigonometry. Algebraic topics include multiple representations of polynomial, rational, exponential,

and logarithmic functions, systems of equations and related graphs, equations, inequalities and applications. Trigonometric topics include an introduction to angle and radian measure, right triangle relationships, trigonometric functions of any angle, laws of sines and cosines, graphs, applications and trigonometric equations. Prereq(s): *Achieve an appropriate score on the mathematics part of the ACT or SAT, or score at an appropriate level on the Mathematics Placement Test, or completion of MAT 012, MAT 012E, or MAT 013A or MAT 045 with a grade of at least C. Note: MAT 045 may be taken in the same semester as MAT 145; a grade of at least C is required in MAT 045 in order to start MAT 145. Credit is not given for both MAT 145 and MAT 137 or for both MAT 145 and MAT 151.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Solve absolute value, quadratic, rational, logarithmic, exponential, and trigonometric equations.
- Solve linear, quadratic, and absolute value inequalities.
- Graph linear, polynomial, piecewise, rational, logarithmic, exponential and trigonometric functions.
- Apply polynomial, logarithmic, exponential and trigonometric functions to problems from business, the social sciences and the natural sciences.
- Perform algebraic operations on functions.

MAT 146 - Precalculus 2

3 credit hours - 3 hours weekly; one term.

Formerly MAT 142 - College Algebra and Trigonometry 2 This course meets the Mathematics General Education Requirement. Study trigonometry and advanced algebra to prepare for calculus. Trigonometric topics include angle measurement, definitions of the six trigonometric functions from the right triangle and unit circle perspectives, graphs, identities, inverses and equations. Algebraic topics include conic sections, polar coordinates, and a review of functions and graphs. Prereq(s): *MAT 145 (formerly MAT 141).* Note: *Credit is not given for both MAT 146 and MAT 151.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- solve equations involving trigonometric, polynomial, rational, exponential, logarithmic, radical, and absolute value expressions.
- simplify expressions involving compound fractions, absolute values, the difference quotient, and trigonometric identities.
- graph trigonometric, polynomial, piecewise defined, rational, exponential, and logarithmic functions, as well as conic sections.
- model problems from the natural and social sciences with the appropriate algebraic or trigonometric equation or function, and solve the problem mathematically.

MAT 151 - Accelerated Precalculus

4 credit hours - Four hours weekly; one term.

This course meets the Mathematics General Education Requirement. Strengthen algebra and mathematical modeling skills to prepare for further studies in mathematics, engineering, and the sciences. Study equations and graphs including polynomial, rational, exponential, logarithmic, and trigonometric functions. Use trigonometric identities to simplify expressions and solve equations. Explore plane analytic geometry. Prereq(s): *Achieve an appropriate score on the mathematics part of the ACT or SAT, or score at an appropriate level on the Mathematics Placement Test, or completion of MAT 012 or MAT 012E with a grade of at least B. Note: MAT 151 is open to all qualified students planning to take calculus. Credit is not given for both MAT 151 and MAT 121 or MAT 151 and MAT 145 or MAT 151 and MAT 146.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Perform algebraic operations and solve a variety of algebraic and transcendental equations and inequalities.
- Perform algebraic operations on functions; use the language and symbolism of functions appropriately.
- Use linear, quadratic, polynomial, logarithmic, and trigonometric functions to interpret and analyze relationships among variables.
- Graph relationships among variables; interpret and analyze graphs.

Solve applied problems at the Precalculus level.
Use technology to assist in visualizing and solving problems.

MAT 191 - Calculus and Analytic Geometry 1

4 credit hours - Four hours weekly; one term.

This course meets the Mathematics General Education Requirement. Find limits, derivatives and integrals of functions. Apply these concepts to explicit, implicit, algebraic, trigonometric and transcendental functions, using derivatives to analyze graphs and to model real situations. Prereq(s): *MAT 151 or MAT 146 or equivalent, or completion of three years of high school mathematics including trigonometry and achieving an appropriate score on the mathematics part of the ACT or SAT or the Mathematics Placement Test.* Crosslisted: *Also offered as MAT 191H; credit is not given for both MAT 191 and MAT 191H.* Note: *Credit is not given for both MAT 191 and MAT 122 or MAT 191 and MAT 230.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Find the limits of functions algebraically, numerically, and/or graphically, and interpret these limits.
- Perform differentiation on functions, including transcendental functions, algebraically, numerically, and graphically.
- Analyze graphs and behaviors of functions with regard to rate of change and concavity.
- Model problems from the sciences that involve rates of change.
- Find indefinite and definite integrals of functions, including some transcendental functions.

MAT 191H - Calculus and Analytic Geometry 1 – Honors

4 credit hours - Four hours weekly; one term.

This is an honors course. This course meets the Mathematics General Education Requirement. Learn to find limits, derivatives and integrals of functions. Apply these concepts to explicit, implicit, algebraic, trigonometric and transcendental functions, using derivatives to analyze graphs and to model real situations. Prereq(s): *Eligibility for Honors Courses and MAT 151 or MAT 146 or equivalent, or completion of three years of high school mathematics including trigonometry and achieving an appropriate score on the mathematics part of the ACT or SAT or the Mathematics Placement Test.* Crosslisted: *Also offered as MAT 191; credit is not given for both MAT 191 and MAT 191H.* Note: *Credit is not given for both MAT 191 and MAT 122 or MAT 191 and MAT 230. Extra class meeting times and assignments may be required.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Finds limits of functions algebraically, numerically, and/or graphically and interprets these limits

- Interprets from a graph whether a limit exists and gives its value
- Approximates a limit from a table of values
- Computes limits using limit laws and properties of continuity
- Uses limits to describe asymptotic behavior

Performs differentiation on functions algebraically, numerically and graphically

- Uses the definition of the derivative to determine the derivative of a function
- Applies rules of differentiation to determine derivatives of functions expressed algebraically
- Approximates a derivative from a table of values
- Approximates a derivative from the graph of a function
- Determines the derivative of an implicit function

Analyzes graphs and behaviors of functions with regard to rate of change and concavity

- Uses the derivative to determine intervals of increasing and decreasing behavior for a given function
- Determines the extreme values of a function
- Uses the second derivative to determine intervals of concavity and points of inflection
- Approximates zeros of functions using Newton's method
- Uses technology to investigate the behaviors of graphs of functions and communicates results

Models problems from the sciences that involve rates of change

- Interprets the derivative as an instantaneous rate of change
- Produces a mathematical model involving related physical quantities and computes optimal values of the model

Finds indefinite integrals

Finds the general antiderivative of a function using algebraic and trigonometric rules and the method of substitution
Finds a specific antiderivative of a function given an initial condition
Approximates an antiderivative from the graph of a function
Sketches the graph of a feasible anti-derivative from a direction field

Evaluates definite integrals

Evaluates a definite integral exactly using the Fundamental Theorem of Calculus
Approximates a definite integral given a table or a graph using the right endpoint, left endpoint, midpoint, and trapezoidal rules

Models problems from the sciences that involve definite integrals

Expresses the limit of a Riemann sum as a definite integral
Sets up and evaluates definite integrals in area and volume problems using rectangles, discs, washers, and cylindrical shells
Sets up and evaluates definite integrals in problems involving the total change and physical quantities such as work

MAT 192 - Calculus and Analytic Geometry 2

4 credit hours - Four hours weekly; one term.

This course meets the Mathematics General Education Requirement. Learn numerical and analytical techniques for integration and apply these techniques to solve problems involving definite integrals. Other topics include solving separable differentiable equations, extending the concepts of calculus to polar and parametric forms, using Taylor polynomials to approximate functions, and determining the convergence or divergence of improper integrals, infinite sequences and infinite series. Prereq(s): *MAT 191 or equivalent.*

Crosslisted: *Also offered as MAT 192H; credit is not given for both MAT 192 and MAT 192H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, a student will be able to:

Use definite integral to find the area, volume, work, arc-length, surface area, etc.
Use advanced techniques of integration to evaluate definite and indefinite integrals.
Solve separable differential equations, including applications.
Approximate definite integrals numerically and analyze the error.
Determine the convergence or divergence of improper integrals, infinite sequences, and infinite series.
Find Taylor Polynomials and apply them to finding approximations.
Extend the concepts of calculus to curves in parametric and polar forms.

MAT 192H - Calculus and Analytic Geometry 2 – Honors

4 credit hours - Four hours weekly; one term.

This is an honors course. This course meets the Mathematics General Education Requirement. Learn numerical and analytical techniques for integration and apply these techniques to solve problems involving definite integrals. Other topics include solving separable differentiable equations, extending the concepts of calculus to polar and parametric forms, using Taylor polynomials to approximate functions, and determining the convergence or divergence of improper integrals, infinite sequences and infinite series.

Prereq(s): *Eligibility for Honors courses and MAT 191 or equivalent.* Crosslisted: *Also offered as MAT 192; credit is not given for both MAT 192 and MAT 192H.* Note: *Extra class meeting times and assignments may be required.* Location(s) Typically Offered: Arnold Main Campus and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, a student will be able to:

Use definite integral to find the area, volume, work, arc-length, surface area, etc.
Use advanced techniques of integration to evaluate definite and indefinite integrals.
Solve separable differential equations, including applications.
Approximate definite integrals numerically and analyze the error.
Determine the convergence or divergence of improper integrals, infinite sequences, and infinite series.
Find Taylor Polynomials and apply them to finding approximations.
Extend the concepts of calculus to curves in parametric and polar forms.

MAT 201 - Calculus and Analytic Geometry 3

4 credit hours - Four hours weekly; one term.

This course meets the Mathematics General Education Requirement. Extend the ideas of limits, differentiation and integration to two or more dimensions. Study vectors and vector functions, partial differentiation, gradients, directional derivatives and tangent planes, optimization, Lagrange multipliers, iterated integration, line and surface integrals, and the classical theorems of Green, Gauss and Stokes. Prereq(s): *MAT 192 or equivalent*. Crosslisted: *Also offered as MAT 201H; credit is not given for both MAT 201 and MAT 201H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze curves and surfaces using partial differentiation, directional derivatives, and the gradient operator.
- Analyze space curves, including their curvature and arclength, as well as the velocity and acceleration of an object on a curve.
- Solve optimization problems in several variables.
- Extend integration to multivariate functions for applications including finding areas, volumes, and moments.
- Apply the curl and divergence operators to vector fields.
- Calculate the circulation of a vector field around the boundary of a plane region with and without Green's Theorem.
- Calculate the circulation of a vector field around the boundary of a surface with and without Stokes' Theorem.
- Calculate the flux of a vector field through a closed surface with and without the Divergence (Gauss') Theorem.

MAT 201H - Calculus and Analytic Geometry 3 – Honors

4 credit hours - Four hours weekly; one term.

This is an honors course. Extend the ideas of limits, differentiation and integration to two or more dimensions. Study vectors and vector functions, partial differentiation, gradients, directional derivatives and tangent planes, optimization, Lagrange multipliers, iterated integration, line and surface integrals, and the classical theorems of Green, Gauss and Stokes. Prereq(s): *Eligibility for Honors Courses and MAT 192 or equivalent*. Crosslisted: *Also offered as MAT 201; credit is not given for both MAT 201 and MAT 201H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze curves and surfaces using partial differentiation, directional derivatives, and the gradient operator.
- Analyze space curves, including their curvature and arclength, as well as the velocity and acceleration of an object on a curve.
- Solve optimization problems in several variables.
- Extend integration to multivariate functions for applications including finding areas, volumes, and moments.
- Apply the curl and divergence operators to vector fields.
- Calculate the circulation of a vector field around the boundary of a plane region with and without Green's Theorem.
- Calculate the circulation of a vector field around the boundary of a surface with and without Stokes' Theorem.
- Calculate the flux of a vector field through a closed surface with and without the Divergence (Gauss') Theorem.

MAT 202 - Linear Algebra

4 credit hours - Four hours weekly; one term.

This course meets the Mathematics General Education Requirement. Study vector spaces and linear transformations on finite-dimensional vector spaces. Topics include linear systems, matrices, determinants, inner product spaces and eigenvalues. Prereq(s): *MAT 191 or MAT 191H or equivalent*. Crosslisted: *Also offered as MAT 202H. Credit is not given for both MAT 202 and MAT 202H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Solve systems of linear equations using a variety of matrix algebra techniques.
- Use the properties of matrix operations, inverses, and determinants to solve matrix algebra problems.
- Find the dimension and bases for a variety of vector spaces and subspaces.
- Use the properties of inner product spaces to create an orthonormal basis, find the angle between vectors, and check for orthogonality.

Analyze the properties of transformations in function notation, prove linearity or nonlinearity, and write its matrix representation.
Find and apply the eigenvalues and eigenvectors of a linear transformation.
Prove basic theorems of linear algebra.
Apply the techniques of linear algebra to solve problems from the physical and social sciences.

MAT 202H - Linear Algebra – Honors

4 credit hours - Four hours weekly; one term.

This is an honors course. This course meets the Mathematics General Education Requirement. Study vector spaces and linear transformations on finite-dimensional vector spaces. Topics include linear systems, matrices, determinants, inner product spaces and eigenvalues. Prereq(s): *Eligibility for Honors courses; MAT 191 or MAT 191H or equivalent.* Crosslisted: *Also offered as MAT 202; credit is not given for both MAT 202 and MAT 202H.* Note: *Extra assignments and class meetings may be required.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Solve systems of linear equations using a variety of matrix algebra techniques.
Use the properties of matrix operations, inverses, and determinants to solve matrix algebra problems.
Find the dimension and bases for a variety of vector spaces and subspaces.
Use the properties of inner product spaces to create an orthonormal basis, find the angle between vectors, and check for orthogonality.
Analyze the properties of transformations in function notation, prove linearity or nonlinearity, and write its matrix representation.
Find and apply the eigenvalues and eigenvectors of a linear transformation.
Prove basic theorems of linear algebra.
Apply the techniques of linear algebra to solve problems from the physical and social sciences.

MAT 212 - Differential Equations

4 credit hours - Four hours weekly; one term.

This course meets the Mathematics General Education Requirement. Analyze and solve ordinary differential equations of various types: separable, exact, linear equations of all orders and systems of linear equations. Master techniques including integrating factors, undetermined coefficients, the Wronskian, variation of parameters, reduction of order, power series, Laplace transforms and numerical approximations. Solve systems of linear equations using operator methods, numerical approximations and matrix methods. Apply these techniques to various applications including trajectories, mixing, growth, decay, vibrating springs, electric circuits and resonance. Use a mathematical software system as an integral and substantial part of the course. Prereq(s): *MAT 192.* Crosslisted: *Also offered as MAT 212H; credit is not given for both MAT 212 and MAT 212H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, a student will be able to:

Analyze first-order Initial Value Problems (IVPs) using direction fields and Euler approximations.
Solve first-order IVPs including separable, linear, and exact equations.
Model various phenomena including mixing, growth, decay, fluid dynamics, and circuits as first-order IVPs.
Solve higher-order linear IVPs by modeling various phenomena, such as springs and electric circuits.
Solve higher-order IVPs using exponential functions, Euler's formula, reduction of order, power series, and Laplace transforms.
Solve systems of linear IVPs using both matrix and numerical methods.
Approximate solutions to IVPs and systems of IVPs using Runge-Kutta methods.
Use a mathematical software system to analyze or solve IVPs for equations and systems.

MAT 212H - Differential Equations-Honors

4 credit hours - Four hours weekly; one term.

This is an honors course. This course meets the Mathematics General Education Requirement. Analyze and solve ordinary differential equations of various types: separable, exact, linear equations of all orders and systems of linear equations. Master techniques including integrating factors, undetermined coefficients, the Wronskian, variation of parameters, reduction of order, power series, Laplace transforms and numerical approximations. Solve systems of linear equations using operator methods, numerical approximations and matrix methods. Apply these techniques to various applications including trajectories, mixing, growth, decay, vibrating springs,

electric circuits and resonance. Use a mathematical software system as an integral and substantial part of the course. Prereq(s): *MAT 192 and eligibility for honors courses*. Crosslisted: *Also offered as MAT 212; credit is not given for both MAT 212H and MAT 212*. Note: *Extra assignments and class meeting times may be required*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, a student will be able to:

- Analyze first-order Initial Value Problems (IVPs) using direction fields and Euler approximations.
- Solve first-order IVPs including separable, linear, and exact equations.
- Model various phenomena including mixing, growth, decay, fluid dynamics, and circuits as first-order IVPs.
- Solve higher-order linear IVPs by modeling various phenomena, such as springs and electric circuits.
- Solve higher-order IVPs using exponential functions, Euler's formula, reduction of order, power series, and Laplace transforms.
- Solve systems of linear IVPs using both matrix and numerical methods.
- Approximate solutions to IVPs and systems of IVPs using Runge-Kutta methods.
- Use a mathematical software system to analyze or solve IVPs for equations and systems.

MAT 221 - Fundamental Concepts of Mathematics 1

4 credit hours - Four hours weekly; one term.

This course meets the Mathematics General Education Requirement. Primarily for students in the elementary education and early childhood education programs. Demonstrate efficiency using decimal and non-decimal numeral systems, mental computations, estimation, set theory, functions, algorithms and understand their historical development, logic and number theory. Apply problem-solving techniques within each topic. Although MAT 221 and MAT 222 can be taken in either order, the sequential order is recommended. Prereq(s): *Achieve an appropriate score on the mathematics part of the ACT or SAT, or score at an appropriate level on the Mathematics Placement Test, or completion of MAT 012 or MAT 012E or MAT 013B or MAT 037 with a grade of at least C, or successful completion of an approved mathematics preparation course*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Solve a variety of mathematics problems, in context, using multiple problem-solving techniques.
- Analyze examples, proofs, and principles of number theory.
- Illustrate the processes and steps of common arithmetic algorithms.
- Illustrate how to use standard and non-standard algorithms for performing the four basic arithmetic operations.
- Compute in non-decimal and Ancient number systems.
- Illustrate the steps to solve problems involving Integer, decimal, and fraction arithmetic.
- Perform mental calculations and estimations and explain strategies used.
- Apply mathematical symbols, conventions, and terminology correctly.

MAT 222 - Fundamental Concepts of Mathematics 2

4 credit hours - Four hours weekly; one term.

This course meets the Mathematics General Education Requirement. Examine two- and three-dimensional shapes, measurement, dimensional analysis, congruence and similarity, and coordinate and transformational geometry. Use computers to explore geometric concepts. Apply problem-solving techniques within each topic. Prereq(s): *Achieve an appropriate score on the mathematics part of the ACT or SAT, or score at an appropriate level on the Mathematics Placement Test, or completion of MAT 012 or MAT 012E or MAT 013B, or MAT 037 with a grade of at least C, or successful completion of an approved mathematics preparation course*. Crosslisted: *Also offered as MAT 222H; credit is not given for both MAT 222 and MAT 222H*. Note: *Although MAT 221 and MAT 222 can be taken in either order, the sequential order is recommended*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply problem solving techniques and prove simple geometric theorems.
- Solve problems involving proportional reasoning.

- Solve geometric problems using coordinate geometry and algebra.
- Use precise language and notation to describe shapes.
- Use technology to explore and check properties of geometry.
- Identify and apply measurements for length, area and volume.
- Identify, compare, and transform geometric figures.
- Apply the theory of rigid and non-rigid transformations to explore properties of shapes.
- Apply properties of congruence to geometry problems.

MAT 222H - Fundamental Concepts of Mathematics 2 – Honors

4 credit hours - Four hours weekly; one term.

This is an honors course. This course meets the Mathematics General Education Requirement. Examine two- and three-dimensional shapes, measurement, dimensional analysis, congruence and similarity, and coordinate and transformational geometry. Use computers to explore geometric concepts. Apply problem-solving techniques within each topic. Prereq(s): *Achieve an appropriate score on the mathematics part of the ACT or SAT, or score at an appropriate level on the Mathematics Placement Test, or completion of MAT 012 or MAT 012E or MAT 013B, or MAT 037 with a grade of at least C, or successful completion of an approved mathematics preparation course.* Crosslisted: *Also offered as MAT 222; credit is not given for both MAT 222H and MAT 222.* Note: *Although MAT 221 and MAT 222 can be taken in either order, the sequential order is recommended. Extra assignments and class meeting times may be required.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply problem solving techniques and prove simple geometric theorems.
- Solve problems involving proportional reasoning.
- Solve geometric problems using coordinate geometry and algebra.
- Use precise language and notation to describe shapes.
- Use technology to explore and check properties of geometry.
- Identify and apply measurements for length, area and volume.
- Identify, compare, and transform geometric figures.
- Apply the theory of rigid and non-rigid transformations to explore properties of shapes.
- Apply properties of congruence to geometry problems.

MAT 223 - Fundamental Concepts of Mathematics 3

4 credit hours - Three hours weekly; one term.

This course meets the Mathematics General Education Requirement. Primarily for students in the elementary education program. Topics include data collection, sampling, interpreting data, displaying data, correlation and regression, distributions, confidence intervals, probability, and the use of technology. Principles and standards of national mathematics organizations are applied to probability and statistics. Prereq(s): *MAT 221 or MAT 222 or equivalent.* Note: *Credit is not given for both MAT 223 and MAT 135.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, a student will be able to:

- Display, summarize, and analyze data including with the aid of technology.
- Perform descriptive statistics and regression analysis on data.
- Apply measures of likelihood and probability theory in specific contexts.
- Draw appropriate conclusions from probability distributions, such as discrete, binomial, and normal distributions.
- Apply current tools of inferential statistics to sample mean and proportion, such as performing a hypothesis test using the p-value.
- Communicate statistical procedures, analyses, and conclusions using mathematical language and notation as well as common language.

MAT 230 - Elementary Calculus (For Business and Social Sciences)

3 credit hours - 3 hours weekly; one term.

This course meets the Mathematics General Education Requirement. Study the basic concepts of calculus with applications to business and social sciences. Learn about limits, continuity, differentiation and integration of polynomial, rational, exponential and logarithmic

functions. Apply calculus to problems involving maxima and minima, curve sketching, and the least-squares technique. The course includes an introduction to functions in several variables and partial derivatives. Prereq(s): *MAT 137, MAT 145 (formerly MAT 141), MAT 151 or equivalent*. Note: *Credit is not given for both MAT 230 and MAT 191*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Find limits of functions algebraically, numerically, and/or graphically and interprets these limits
- Perform differentiation on functions algebraically, numerically and graphically
- Analyze graphs and behaviors of functions with regard to rate of change and concavity
- Solve problems from business and the social sciences that involve rates of change
- Find indefinite integrals
- Evaluate definite integrals

MAT 235 - Introduction to Data Science

4 credit hours - 3 hours of lecture and 2 hours of lab weekly; one term.

This course meets the Mathematics General Education Requirement. Apply standards and practices for collecting, organizing, managing, and exploring data, combining principles and skills from statistics and computer programming with a goal of using these tools to provide information to decision makers. Topics include causality, single and multivariable data manipulation, data visualization and generation, statistical inference, statistical modeling, and machine learning. Prereq(s): *A grade of C or better in any college level math course, or CTP 160 - Python, or permission from the Mathematics Assistant Dean*. In addition to these course requirements, students must possess proficiency in basic computing tasks, including file storage and management and online communications. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify and describe a method or technique commonly used in data science suitable for a given data-driven problem.
- Import, manipulate, and organize large data sets using a programming language.
- Develop, fit, and use statistical models to generate predictions.
- Produce and interpret numerical summaries and visual representations to describe and understand data.
- Formulate statistical claims in terms of null and alternative hypotheses; carry out techniques such as bootstrapping and interpret basic hypothesis tests.
- Identify scenarios where a training and testing partition of a data set is appropriate, and partition the data set for predictive modeling (in the context of machine learning).
- Identify potential ethical impact for disparate outcomes associated with the use of certain data analysis and machine learning techniques.

MAT 250 - Introduction to Discrete Structures

3 credit hours - Three hours weekly; one term.

Apply fundamental mathematical concepts and algebraic structures to theoretical areas of computer science. Topics include logic, number theory, sets, relations, functions, strong and weak mathematical induction, combinatorics, probability, and algorithm efficiency. Prereq(s): *MAT 146 or MAT 151 or higher level math course*. Note: *Programming experience is recommended*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Employ formal notations for logic, sets, functions and summations, including recursion.
- Construct direct and indirect proofs, including proofs by induction.
- Solve counting problems, including permutations and combinations.
- Determine the efficiency of algorithms.
- Solve problems involving number theory, including modular arithmetic.

MAT 281-299 - Special Topics in Mathematics

1-4 credit hours -

A focused study of mathematics topics not emphasized in introductory courses. Some offerings may be designed for specific audiences. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-30.

Mechatronics

MEC 110 - Mechanical Systems

4 credit hours - Fours hours lecture and directed laboratory weekly; one term.

Learn the principles and concepts needed to safely maintain and troubleshoot a variety of mechanical system components found in industry including bearings, conveyor belts, chain drives, and sprockets. Demonstrate comprehension of preventive maintenance, installation, repair/replacement, and safety procedures using hands-on labs. Build a mechanical systems project utilizing skills learned to complete a final course challenge. Lab fee \$30. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify and describe the parts of a mechanical power transmission system.
- Perform correct installation and set-up of mechanical systems.
- Perform basic preventative maintenance of mechanical systems.
- Install and correctly align mechanical components such as roller chains, belt drives, and gear drives.

MEC 120 - Pneumatics and Hydraulics

4 credit hours - Fours hours of lecture and directed laboratory weekly; one term.

Learn the basics of pneumatic, electro pneumatic and hydraulic control circuits in a complex mechatronic system. Master the functions and properties of control elements based upon physical principles, and the roles they play within the system. Use and interpret technical documentation and perform measurements on the pneumatic and hydraulic control circuits. Apply troubleshooting strategies to identify, localize and correct malfunctions and practice preventive maintenance and safety. Lab fee \$30. Prereq(s): *EET 130 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

MEC 130 - Programmable Logic Controllers

4 credit hours - Four hours of lecture and directed laboratory weekly; one term.

Learn about the basic digital logic and programmable logic controllers (PLCs) in a mechatronics system using the automation system. Includes basic PLC functions and testing; identification of malfunctioning PLCs; and troubleshooting techniques and strategies to identify and localize PLC hardware generated problems. Writing small programs and problem-solving using computer simulations is emphasized. Lab fee \$30. Prereq(s): *EET 130 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

MEC 140 - Introduction to Robotics

4 credit hours - Fours hours of lecture and directed laboratory weekly; one term.

Learn the basic principles of robotics, such as mechanical construction, electronics, sensors, motors and robot programming. This course uses a hands-on approach to introduce the basic concepts, focusing on the construction and programming of autonomous mobile and Industrial robots. Works in groups to build and test increasingly more complex robots, culminating in an end-of-semester robot project. Lab fee \$100. Prereq(s): *EET 130 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

MEC 230 - Electric Motor Fundamentals

3 credit hours - Three hours lecture and directed lab weekly; one term.

Learn the fundamentals of AC and DC motor types commonly found in industry along with their related control technologies. Explore specifications, operation, starting, braking, overload protection, basic troubleshooting, and variable frequency drives. Demonstrate comprehension through hands-on labs while exercising proper industry safety procedures. Lab fee \$30. Prereq(s): *EET 130 or permission of engineering department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered:

Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Install and operate DC and AC motors according to manufacturer specifications
- Demonstrate proper electric motor safety procedures
- Identify and describe common causes for DC and AC motor failures
- Apply various control methodologies to DC and AC motors
- Perform basic VFD parameter programming to control AC motors

MEC 266 - Mechatronic Systems Capstone

3 credit hours - Three hours of combined lecture/lab weekly; one term.

Gain real world experience in modification and control of automated mechatronic processes. Learn and review safety procedures and guidelines associated with working in an industrial setting. Complete and present a final hands-on project, which includes the design, building, programming, troubleshooting, and integration of a variety of mechatronic subsystems into a fully-functioning automated industrial process. Lab fee \$30. Prereq(s): *MEC 110, MEC 120, and MEC 130 or permission of department chair.* Location(s)

Typically Offered: Independent Study (IS) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Perform basic modifications to existing mechatronic systems
- Integrate various mechatronics subsystems into a working process
- Perform systemic diagnosis and repair of mechatronics systems
- Read various mechatronic systems schematics
- Apply OSHA safety guidelines

MEC 280-299 - Special Topics in Mechatronics Technology

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Focuses on current or specialized topics in mechatronics engineering technology designed to meet expressed needs and interests within the community. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Prereq(s): *Will vary depending on course offering.*

Medical Assisting

MDA 100 - Introduction to Medical Terminology

1 credit hour - One hour weekly; one term.

Learn basic medical terminology, including prefixes, suffixes and word roots as they relate to body systems and associated pathological conditions. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Utilize medical terminology components to build words

- Recognize word parts, such as prefixes, suffixes and roots words to determine word meaning
- Utilize medical terminology word parts, such as prefixes, suffixes, and root words to build words, change context of medical terms, and breakdown medical terms

Interpret medical histories, and other medically related literature

- Analyze legal medical documents, such as: history and physicals, laboratory reports, pathology reports, consultative reports, and discharge summaries
- Verify physicians orders and other data pertinent to patient/client care

Apply terminology to specific disease processes that affect organ systems

Analyze word roots and the application of prefixes, suffixes and combining forms used to define illness, diseases or conditions

Articulate medical terms related to treatment modalities for specific body system disorders and diseases

Apply learned concepts to specific pathologies of interest.

Correlates medical terms to system pathology, such as kidneys and dialysis, muscular system and muscle atrophy

States correct medical term relating to body system and specific pathological process

MDA 110 - Professionalism in Health Care

1 credit hours - One hour weekly; one term.

Introduces health profession students to the elements of professionalism including job commitment, accountability, work ethic, attitude and quality of work. Students gain a fundamental understanding of the health care professional's contributions in the work environment. Teamwork, trustworthiness, communication skills, conflict resolution and customer service in the health care environment are presented. Students prepare a resume, and develop techniques for exploring employment opportunities in health care. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Students will state attributes of professionalism

As demonstrated by team building, honesty, and integrity in the work environment

Appearance, such as cleanliness and job-appropriate attire

Students will produce a comprehensive and informative resume

As demonstrated by comprehensive and professionally formatted cover letter

As demonstrated by comprehensive inclusion of skill sets and the essential elements for job preparedness

Students will identify methods for exploring employment opportunities

As demonstrated by networking activities

Portfolio-building (samples of work products/letters of recommendation)

Job and career fairs/ college resources

Students will demonstrate attributes that project a professional image

As demonstrated by grooming and cleanliness

As demonstrated by professional attire

Students will use professional communication

As demonstrated by use of verbiage and grammar in appropriate context

As demonstrated by professional written communications (letters/memoranda)

Students will demonstrate a basic understanding of ethical and moral behaviors and traits in the professional work environment

As demonstrated by respecting patients and coworkers, maintaining confidentiality, and operating within the scope of practice

MDA 111 - Laws and Ethics for Health Professionals

2 credit hours - Two hours weekly; one term.

Formerly MDA 111 - Introduction to Allied Health and Medical Ethics. Learn the legal and ethical responsibilities of the health care worker, including laws, regulations and industry standards. Explore the principles of moral, bioethical and health etiquette as they apply to current health care delivery, such as stem cell research, refusal of treatment, living wills and right to die issues. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Discuss the foundations of Law and Ethics and applicability to health care providers

Explain the applications of law and ethics in healthcare, such as: professional code of ethics, bioethics, and the role and purpose of ethics committees

Distinguish among law, ethics, bioethics, etiquette, and protocol

Define moral values, and explain how they relate to law, ethics and etiquette, such as: refusal of treatment, experimental treatments, emancipated minors, living wills and medical durable power of attorney

Describe current legal issues for health care providers

Discuss the doctrine of respondent superior related to institutions, organizations, or sole practitioners

Define telemedicine, and discuss its role in today's health care environment and cost utilization, such as telephonic advice, and the increasing use of long-distance physicians

Explain the purpose of quality improvement and risk management within a health care facility or organization

Define the law and court systems in the United States

Explain the various levels of federal and state courts and the jurisdiction of each

Differentiate between criminal law and civil law and the required elements for each, such as fraud, malpractice, intentional and unintentional torts, and malfeasance.

Explain the difference between a felony and a misdemeanor

Differentiate between licensure and certification

Explain the purpose of the medical practice acts pertaining to physician and specialty practice, and the relationship to standards of care

Discuss the purpose of medical boards as related to standards of care for patients and guidelines for current practice and legal parameters for practice

Cite reasons for which a physician or other licensed health care provider may lose his or her license, such as: malpractice, and intentional torts

Define types of professions that require licensure, such as: physicians, nurses, physician assistants, pharmacists, and radiology technicians

Define types of professions that require certification, such as medical assisting, phlebotomy, nursing assistant, and patient care technician.

Discuss the fundamental concepts of contracts

List and briefly describe the four essential elements of a contract: 1) Agreement; 2) Consideration; 3) Legal subject matter, and; 4) Contractual capacity

Explain the difference between implied contract and expressed contract in the inpatient, and ambulatory settings

State the specific required elements for physician termination of a contract with a patient, such as: failure to pay, failure to keep scheduled appointments, failure to comply with treatment plan, and patient seeks care from another physician

Explain the legal and ethical issues of death and dying

Discuss laws and specific terms relating to death, such as: Uniform Determination of Death Act, brain death, comatose, and persistent vegetative state.

Construct federal and state legislative benchmarks protecting the rights of the terminally ill, such as: Voluntary euthanasia, choices in dying, Patient's Bill of Rights, The Uniform Rights of the Terminally, and precedence.

MDA 112 - Pharmacology for Health Professions

3 credit hours - Three hours weekly, one term.

Formerly RXN 211 Pharmacology for Health Professions Recognize the history and current principles of pharmacology pertaining to health professions. Discuss drug categories according to body system and therapeutic applications. Identify categories of analgesic and anti-infective medications and their therapeutic effects. Describe the body's immune response related to vaccine administration and disease prevention. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Apply the basic concepts of pharmacology such as medication side effects and dosage calculations;

Define the terminology related to drug effects;

Interpret drug nomenclature appropriately;

Describe mechanisms of drug action and pharmacokinetics.

MDA 113 - Medical Terminology

3 credit hours - Three hours weekly; one term.

Learn medical terminology, including prefixes, suffixes, word roots and medical abbreviations. Utilize concepts presented in a body systems approach that emphasizes key anatomical and physiological terms. Additional topics include pathology, diagnostic procedures, and treatment modalities. Crosslisted: *Also offered as MDA 113H; credit not given for both MDA 113 and MDA 113H.*

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students should be able to:

- Describe structural organization of the human body.
- Identify body systems.
- Describe body planes, directional terms, quadrants, body cavities.
- List major organs in each body system.
- Identify the anatomical location of major organs in each body system.
- Compare structure and function of the human body across the life span.
- Describe the normal function of each body system.
- Identify common pathology related to each body system including: signs, symptoms, etiology.
- Analyze pathology for each body system including: diagnostic measures, treatment modalities.
- Identify classifications of medications including indications for use.
- Define coaching a patient as it relates to health maintenance, disease prevention, compliance with treatment plan, community resources, and adaptations relevant to individual patient needs.
- Recognize elements of fundamental writing skills.
- Identify medical terms labeling the word parts.
- Define medical terms and abbreviations related to all body systems.
- Students will understand diverse genetic diseases/conditions and incorporate the relevant medical language/verbiage to professionally communicate with patients and people seeking medical care.

MDA 113H - Medical Terminology

3 credit hours - Three hours weekly; one term.

This is an honors course. Learn medical terminology, including prefixes, suffixes, word roots and medical abbreviations. Utilize concepts presented in a body systems approach that emphasizes key anatomical and physiological terms. Additional topics include pathology, diagnostic procedures, and treatment modalities. Crosslisted: *Also offered as MDA 113; credit not given for both MDA 113 and MDA 113H.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students should be able to:

- Describe structural organization of the human body.
- Identify body systems.
- Describe body planes, directional terms, quadrants, body cavities.
- List major organs in each body system.
- Identify the anatomical location of major organs in each body system.
- Compare structure and function of the human body across the life span.
- Describe the normal function of each body system.
- Identify common pathology related to each body system including: signs, symptoms, etiology.
- Analyze pathology for each body system including: diagnostic measures, treatment modalities.
- Identify classifications of medications including indications for use.
- Define coaching a patient as it relates to health maintenance, disease prevention, compliance with treatment plan, community resources, and adaptations relevant to individual patient needs.
- Recognize elements of fundamental writing skills.
- Identify medical terms labeling the word parts.
- Define medical terms and abbreviations related to all body systems.
- Students will understand diverse genetic diseases/conditions and incorporate the relevant medical language/verbiage to professionally communicate with patients and people seeking medical care.

MDA 114 - Diseases of the Human Body

3 credit hours - Three hours weekly; one term.

Investigate disease pathology and appropriate terminology. Discuss disorders that affect the whole body, such as immune disorders and neoplasms; thereafter, diseases that primarily affect a specific body system such as cardiovascular, gastrointestinal, renal and dermatologic disorders. Focus on definition, causes when appropriate, signs and symptoms, clinical findings, treatment and aspects of patient teaching. Prereq(s): *MDA 113.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and

summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Examine changes in body functioning resulting from disease processes.
2. Correlate the significance of poor lifestyle habits related to health, i.e., smoking, alcohol, drugs, improper rest, exercise, or lack of and food abuse.
3. Describe the physical responses of stress and their relationship to diseases processes.
4. Apply pharmacology essentials to drug treatment and diagnostic modalities.
5. Demonstrate an understanding of the major body organ systems and their relationship to disease states, disease prevention and health promotion.
6. Identify the cycle of infection including transmission and treatment.
7. Evaluate initiatives currently in place to reduce or eliminate highly contagious diseases.
8. Analyze disease entities identified as leading causes of death worldwide.
9. Identify the health professional's role in disease identification.
10. Describe the health professional's role in the treatment of diseases.
11. Describe various health professionals' roles in health promotion.

MDA 115 - Administrative Medical Assisting 1

3 credit hours - Three hours weekly; one term.

Review the professional career responsibilities of and practice the skills performed by administrative medical assistants. Utilize competency-based exercises including simulations of skills used in the administration of the physician's office and other types of healthcare settings, such as: interpersonal communication activities, records management, patient scheduling and financial transactions. Coreq(s): *MDA 113*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Perform Clerical Functions

Complete all components for scheduling a patient appointment using simulation software, such as: patient demographics, chief complaint, medical insurance eligibility, and time required related to type of appointment
Maintain client/patient medical record within guidelines/protocols

Demonstrate bookkeeping procedures

Prepare a bank deposit including: cash, checks, and money orders
Perform accounts payable and accounts receivable accounting functions

Process insurance claims

Enter insurance codes related to specific procedures and diagnosis using ICD-9-CM and CPT manuals
Utilize software for insurance eligible and claim batching for payment

Demonstrate all forms of professional communication

Use all appropriate methods of verbal communication, such as: closed questioning, opening questioning, leading, and guiding
Demonstrate professional telephone techniques, such as: stating physician office, name, and clarifying information
Interact by professional written communication with physicians, vendors, clients, patient and staff with formal guidelines for document preparation

State legal concepts for the medical assistant

Maintain confidentiality and patient privacy as related to HIPAA, using state and federal guidelines
Describe the concept of respondent superior and scope of practice for medical assistants

Perform inventory of office/clinical supplies

Differentiate between incidental supplies, and capital purchases, such as: pens, paper, and office supplies
Establish PAR levels for clinical supplies and system for maintaining levels, such as: automated ordering, peak levels for supplies, and specified ordering time frames

MDA 116 - Fundamentals of Health Care Delivery Systems

3 credit hours - 45 hours of lecture; one term.

Learn the fundamental concepts and operations of health care delivery systems. Concepts include health care entity governance, health

status indicators, health manpower, health care financing and utilization, health planning and regulation and health policy. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

MDA 117 - Administrative Medical Assisting 2

3 credit hours - Three hours weekly; one term.

Perform basic coding of diagnoses, medical procedures and services. Perform financial transactions related to daily operations. Utilize medical terms specific to medical insurance claims. Perform transactions within legal and ethical guidelines for methods of claim transmission. Perform simulation activities of the daily management of the medical office. Discuss the role of the Medical Assistant in the management and supervision of the physician office practice. Prereq(s): *MDA 113 and ACA 100, or permission of the department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe types of medical insurance.
- Identify the special terms, marks, abbreviations, and symbols used in medical coding and health insurance processes.
- Complete insurance forms.
- Discuss legal and ethical considerations with various stakeholders, including patients, medical personnel, and insurance processors.
- Discuss the collection process as it applies in a medical setting.
- Utilize technology for coding.
- Explain daily operations in a medical setting.
- Discuss the role of the medical assistant as manager.

MDA 118 - Intravenous Therapy

3 credit hours - Three hours weekly; one term.

Learn practices of intravenous therapy (IVT) in the inpatient and outpatient settings. Students are given an overview of IVT theory, techniques for insertion, monitoring, and care and maintenance of external, peripheral intravenous lines. Additional topics include care and maintenance of venous access devices, such as midline peripheral catheters, central venous catheters and internal ports. Other topics include types and purpose of IVT, mechanical and infusion pumps including patient-controlled analgesia, calculation procedures, administration sets, types of fluids related to specific condition and expected outcome and discontinuation. The course focus is on the application and understanding, as well as presenting real-life situations that can occur during IV therapy and their necessary solutions. Lab fee \$50. **Prereq(s):** *MDA 110, MDA 111, MDA 113, and MDA 112, or permission of the department chair.*

Location(s) Typically Offered: Online (OL) **Term(s) Typically Offered:** Summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Students will understand the practice of intravenous therapy

- As demonstrated by students understanding their role and scope of practice relative to IV therapy
- As demonstrated by stating at least four reasons for IV therapy

Students will understand safety measures and infection control necessary for intravenous therapy administration

- As demonstrated by relating CDC standards for hand hygiene before, during and after IV therapy procedures.
- As demonstrated by stating the responsibilities in the prevention of needle sticks and identifying personal protective equipment that is used during IV therapy.

Students will understand the purpose and maintenance of intravenous therapy supplies and equipment

- As demonstrated by stating the difference among types of infusion rate control devices.
- As demonstrated by stating how IV therapy fluids are supplied.
- As demonstrated by stating the factors to be considered when selecting a venous access device.

Students will understand intravenous fluids, components and compatibility

- As demonstrated by stating the factors that affect the compatibility of IV solutions and medications.
- As demonstrated by stating the responsibility involved in safe administration of IV fluids and medications.

Students will understand preparation and patient communication when performing IV therapy

- As demonstrated by stating and demonstrating IV therapy techniques for insertion of peripheral IV and saline or heparin lock.

As demonstrated by selecting and preparing the correct equipment for IV therapy based on the physicians orders and the facility policy.

As demonstrated by stating the proper way to psychologically and physically prepare the patient for IV therapy.

Students will understand monitoring and maintaining intravenous therapy

As demonstrated by stating the common problems that can occur with IV therapy, including infiltration and phlebitis and the correct steps to prevent these problems.

As demonstrated by stating the means to troubleshoot IV flow rate problems, including IVs that have stopped or are flowing too slowly or too fast.

Students will understand documentation and discontinuation of intravenous therapy

As demonstrated by stating the proper documentation for IV initiation, during IV therapy, and for IV discontinuation.

As demonstrated by stating and demonstrating the procedure for discontinuing a peripheral IV infusion.

Students will understand intravenous therapy calculations

As demonstrated by proficiency in calculation exercises to calculate flow rate for electronic infusion devices and manually controlled IV infusions.

As demonstrated by proficiency in practice calculations determining infusion time and volume infused based on flow rate.

MDA 119 - Electrocardiography and Cardiac Diagnostics

3 credit hours - Three hours weekly; one term.

Learn the didactic and associated technical skills to perform an Electrocardiogram. Additional theory includes cardiology, vascular anatomy and physiology of the heart, pathophysiology, electrocardiogram interpretation and the clinical significance related to health, pathology, and metabolic conditions. Students manipulate electrocardiogram equipment and perform tracings on other students with instructor supervision. Theory pertaining to additional cardiac testing, such as Holter monitoring and stress testing, is presented. Lab fee \$60. Prereq(s): *MDA 110, MDA 111, MDA 113, and MDA 112, or permission of the academic chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Student will understand what an ECG is and its importance to medicine

As demonstrated by having students complete Checkpoint Questions throughout the chapter

As demonstrated by a class discussion as to why students are taking the program and how they think that ECG will be necessary for their career objective

Students will understand the anatomy and physiology of the cardiovascular system

As demonstrated by tracing the pathway of the blood through pulmonary and systemic circulation

As demonstrated by describing the parts and function of the conduction system

As demonstrated by conducting research relating to a cardiac disease/condition and preparing a written report that includes the description, etiology, signs and symptoms, diagnostics, treatment modalities, education, and support.

Preparing a class presentation on the cardiac disease/condition

As demonstrated by patient-provider interaction role-play that emphasizes the importance of therapeutic communication in a clinical setting and applying cultural competence

Students will understand the cardiac conduction system as it relates to the ECG through identification of each part of the ECG waveform

As demonstrated by defining the unique qualities of the heart and their relationship to the cardiac conduction system

As demonstrated by explaining the conduction system as it relates to the ECG

As demonstrated by describing the heart activity that produces the ECG waveform

Students will understand ECG leads and function of ECG machines

As demonstrated by identifying the three types of leads and explaining how each lead is recorded

As demonstrated by stating the functions of common ECG machines

Students will be proficient in preparation, performance and equipment maintenance when administering an ECG

As demonstrated by stating the proper procedure for the application of the electrodes and lead wires for a 12-lead and continuous monitoring ECG, and troubleshooting special patient circumstances when performing an ECG

As demonstrated by the ability to identify at least three ways to maintain infection control, safety and HIPAA regulations during the ECG procedure

Students will understand ECG interpretation and clinical significance

As demonstrated by stating the process of evaluating ECG tracings and determining the presence of dysrhythmias

As demonstrated by stating the criteria used for classification of the dysrhythmias including rhythm, rate, P wave configuration, PR interval measurement, and QRS duration measurement

Students will understand exercise cardiology and stress tests

As demonstrated by stating responsibilities of a health care giver for exercise electrocardiography

As demonstrated by stating the different uses of exercise electrocardiography

Students will identify the different types of ambulatory monitors and their functions

As demonstrated by simulating the preparation of a patient for application of an ambulatory monitor

As demonstrated by stating the procedure for reporting the results from ambulatory monitoring

MDA 140 - Clinical Medical Assisting 1

6 credit hours - Four hours of lecture and four hours of college laboratory weekly; one term.

Learn the theory and skills necessary to function in the medical setting as a clinical medical assistant. Focus theoretical applications on the entire life span, including health, health promotion, wellness and illness. Apply learned concepts in the college lab, including electrocardiogram, medication preparation and administration, preparing for and assisting with procedures, obtaining vital signs and the practice of aseptic technique. Students are required to practice selected skills on each other during college laboratory. Lab fee \$100. Prereq(s): MDA 113, MDA 115, MDA 117. Coreq(s): MDA 112. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Perform clinical skills within the scope of practice for a medical assistant
- Assist the provider with clinical procedures
- Demonstrate critical analysis
- Practice Standard Precautions in compliance with Federal, State and Local Laws
- Use therapeutic verbal and nonverbal communication skills
- Demonstrate awareness of cultural diversity
- Perform medication calculation and administration

MDA 142 - Clinical Medical Assisting 2

4 credit hours - Three hours of lecture and two and one-half hours of laboratory weekly; one term.

Learn introductory laboratory procedures and functions, including Occupational Safety and Health Administration (OSHA) regulations and Clinical Laboratory Improvement Amendments (CLIA) standards related to laboratory operations. In laboratory sessions, focus on quality control, pre-analytical accessioning and processing, performing venipuncture procedures, urinalysis, basic microbiology, point of care testing and other diagnostic procedures that are performed in the physicians' office or outpatient setting. Students are required to practice selected procedures on each other during college laboratory under instructor supervision. Lab fee \$125. Prereq(s): MDA 111, MDA 115, MDA 117 and MDA 200 with a grade of C or better. Coreq(s): MDA 140 and MDA 112 or permission of the department chair. Note: Typically offered at MC and OL; spring term.

Course Outcomes

Upon completion of this course, students will be able to:

- Apply safety and regulatory guidelines in the medical laboratory.
- State the purposes of the clinical medical laboratory.
- Perform Phlebotomy/Venipuncture procedures and the collection of non blood specimens.
- Conduct basic types of hematological testing.
- Obtain urine for specific types of urine testing.
- Perform basic microscopy.
- State types of specialty tests and diagnostic procedures in physicians' office.

MDA 200 - Electronic Health Records

3 credit hours - three hours weekly; one term.

Formerly HIT 200 Learn the history and inception of the electronic health record and current health technology nomenclature and standards. Gain a broad perspective of current federal legislation and law governing the electronic health record. Learn to develop practical applications of the electronic health record, including types of medical software, administrative applications and functions for

long-term planning, patient scheduling, tracking patient activity, e-communication within health systems, building the patient's electronic face sheet and chart, electronic ordering and scheduling for testing and diagnostics, creating health forms, electronic health imaging, building health system and medical databases, electronic patient encounter forms and electronic billing systems in the health care setting. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, winter, and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Develop and maintain health data systems and structures
- Integrate systems to maintain data integrity in compliance with national guidelines and laws
- Develop and maintain clinical classifications systems
- Develop non clinical support systems, such as financial and statistic programs that support overall operations
- Integrate system technologies to support and maintain data integrity
- Demonstrate effective and fluent e-communication technologies, including internal and external
- Develop and maintain data storage and retrieval systems
- Develop and maintain systems that support electronic health records, including imagery and other modalities that support patient diagnostics and treatment
- Develop integrated systems that support real time communications of patient care and financial reimbursement

Accreditation outcomes

- Identify common pathology related to each body system including:
 - signs
 - symptoms
 - etiology
- Analyze pathology for each body system including:
 - diagnostic measures
- Identify quality assurance practices in healthcare
- Identify CLIA waived tests associated with common diseases
- Define coaching a patient as it relates to:
 - health maintenance
 - disease prevention
- Identify types of nonverbal communication
- Define coaching a patient as it relates to compliance with treatment plan
- Recognize elements of fundamental writing skill
- Identify different types of appointment scheduling method
- Identify the advantages and disadvantages of the following appointment systems:
 - manual
 - electronic
- Identify critical information required for scheduling patient procedures
- Define type of information contained in the patient's medical record
- Differentiate between electronic medical records (EMR) and a practice management system
- Explain the importance of data back-up
- Explain meaningful use as it applies to EMR applications of electronic technology in professional communication
- Identify types of information contained in the patient's billing record
- Identify:
 - information required to file a third party claim
 - the steps for filing a third party claim
- Outline managed care requirements for patient referral
- Describe processes for precertification and preauthorization
- Describe how to use the most current procedural coding system
- Describe how to use the most current diagnostic coding classification system
- Describe how to use the most current HCPCS level II coding system
- Describe components of the Health Insurance Portability & Accountability Act (HIPAA)
- Define living will/advanced directives
- Verify the rules of medication administration:
 - right patient

- right medication
- right dose
- right route

Differentiate between normal and abnormal test results

Use medical terminology correctly and pronounced accurately to communicate information to providers and patients

Coach patients regarding treatment plan

Compose professional correspondence utilizing electronic technology

Report relevant information concisely and accurately

Manage appointment schedule using established priorities

Schedule a patient procedure

Create a patient's medical record'

Organize a patient's medical record

File patient medical records

Utilize an EMR

Input patient data utilizing a practice management system

Perform accounts receivable procedures to patient accounts including posting:

- Charges

- Payment

- Adjustment

Obtain accurate patient billing information

Verify eligibility for services including documentation

Obtain precertification or preauthorization including documentation

Complete an insurance claim form

Perform procedural coding

Perform diagnostic coding

Protect the integrity of the medical record

Document patient care accurately in the medical record

MDA 274 - Professional Seminar

1 credit hour - Three hours weekly, one term.

Learn the traits and behaviors of the professional medical assistant, and the importance of credentialing. Prepares the student for the externship experience. This course also provides a comprehensive review of the American Association of Medical Assistants (AAMA) administrative, clinical and general competencies required for Certified Medical Assistant (CMA) national examination. Prereq(s): ACA 100, MDA 113, MDA 115, MDA 117, MDA 140, and MDA 142. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the structural organization of the human body across the life span.

- Solve mathematical computations related to patient care and medication administration.

- Define the principles of infection control practiced within the ambulatory patient care setting.

- Identify the specific dietary needs related to health maintenance and disease prevention.

- Differentiate styles and types of effective communication techniques utilized in the health care setting.

- Compare and contrast the administrative functions performed in a health care setting.

- Assemble basic financial practices performed by the medical assistant in the health care setting.

- Investigate third party reimbursement methods related to health care operations.

- List how to use the Current Procedural Terminology (CPT) codes and the International Classification of Diseases,10th Revision, Clinical Modification (IDC-10-CM) manual.

- State the legal implications related to the medical assistant scope of practice.

- Interpret the ethical considerations of the medical assisting profession.

- Appraise the principles of protective practices in the health care setting.

MDA 275 - Medical Assisting Practicum

3 credit hours - 160 hours supervised, unpaid field experience.

Concluding medical assisting course that provides practical experience in medical offices. Students receive a grade of pass or fail.

Prereq(s): Completion of all courses required for the MDA certificate with a minimum of 2.0 GPA; meeting the technical standards of the Medical Assisting department. Note: Practicum (MDA 275) internship requires 160 hours of unpaid supervised field experience in a physician's office. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Demonstrate the professional, ethical and legal behaviors of an administrative and clinical medical assistant

Understands the importance of professional appearance

Demonstrates professionalism in communication (verbal and nonverbal)

Discuss the legal and regulatory guidelines for a medical office

Student identifies location of policy and procedure manuals in the clinical setting, including OSHA manuals, MSDS manuals, and general office policies

Students maintains records demonstrating compliance for legal and regulatory guidelines, such as: HIPAA notifications for clients/patients, quality assurance checks in the clinical areas;

Perform administration functions

Communicates effectively and professional with all health care providers and patients

Processes superbills and encounter forms manually, or electronically

Documents appropriate, using approved medical terminology and abbreviations

Collects copays and other payments, and documents appropriate entry; processes credit balances

Maintains the patient medical record according to office policy, including new patient chart assembly, placing outguides, pulling charts, and organizing and filing medical records

Understands general concepts of insurance, such as indemnity, health maintenance, and management care, and follows insurance guidelines for COB

Perform clinical functions

Performs patient assessment functions, such as; obtaining and documenting vital signs, obtaining height and weight (adult/child/toddler/infant), vision and hearing screening, ECG's, and respiratory testing.

Assist with minor office procedures, including: setting up for procedures; preparing and maintaining sterile areas; obtaining proper consent forms; and disinfecting and sterilizing procedures

Calculate, prepare and administer medications, including oral, topical, and parenteral (excluding IV)

Perform basic lab functions, such as urinalysis, basic hematology and chemistry testing, processing, and tracking results

State the types of and indications for the interdisciplinary members of the medical office team

Identify the roles and functions of the physician, nurse practitioner and/or physician assistant, and clinical manager/supervisor

Delineate the types of outpatient specialties and practices

State the services offered in specific outpatient offices by specialty

Differentiate between primary care, referral and consultation

MDA 280-299 - Special Topics in Medical Assisting

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Focuses on topics of current interest in medical assisting including courses designed to meet expressed needs and interests within the community. Also for medical assistants requiring additional course content to qualify for transfer credit, credit by exam or who wish to meet updated competency requirements for the national certifying exam. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-125. Prereq(s): *Will vary depending on course offering.*

Medical Laboratory Technician

MLT 100 - Introduction to the Medical Laboratory

4 credit hours - 45 hours of lecture and 30 laboratory; one term.

Formerly MLT 100 Introduction to the Medical Laboratory 1 Apply basic principles and practices of laboratory medicine in clinical hematology, immunology and microbiology. Develop familiarity with the blood bank and the study of body fluids, including urinalysis. Demonstrate laboratory activities including specimen-handling and phlebotomy procedures. Students will perform phlebotomy procedures on one another. Prepare for entry-level jobs as medical laboratory assistants in hospitals, medical laboratories

and physician office laboratories. Lab fee \$170. Prereq(s): *Acceptance into the Medical Laboratory Technician Program or permission of the MLT Program Coordinator*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Conduct basic analysis of laboratory results;
2. Perform basic laboratory procedures, such as: phlebotomy and venipuncture, obtaining and procuring blood and nonblood type specimens;
3. Use specialized equipment to obtain laboratory values for blood and nonblood specimens;
4. Relate laboratory testing results to theory as demonstrated by normal and abnormal values;
5. Apply specific testing types for specialty areas in clinical and pathology laboratory settings;
6. Perform quality assurance testing on automated and manual testing equipment;
7. Write scientific and research reports related to laboratory medicine.

MLT 101 - Urinalysis and Body Fluids

3 credit hours - 30 hours of lecture and 30 hours of laboratory; one term.

Recognize the anatomy and physiology of the genitourinary system and the principles and procedures of the complete urinalysis. Topics include physical, chemical, and microscopic examinations of urine as well as other body fluids such as cerebrospinal, synovial, serous, seminal, amniotic, gastric, and fecal analysis. Learn Clinical Laboratory Improvement Act of 1988 (CLIA 88) Waived and Moderate test methods, specimen collection and handling, analyses, and correlation with disease states. Lab fee \$170. Prereq(s): *MLT 100 with a minimum grade of C or better or permission of the MLT Program Coordinator*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Analyze laboratory tests, including point-of-care testing (POCT), urinalysis, and other body fluids in the clinical laboratory.
2. Perform procedures used in procuring, transport, and processing laboratory specimens.
3. Use manual and automated clinical laboratory equipment to obtain laboratory data.
4. Relate and correlate laboratory results for blood and non-blood specimens to body systems.
5. Apply Occupational Safety and Health Administration (OSHA) guidelines, and standard precautions for bodily fluids.
6. Identify appropriate personal protective equipment appropriate to bodily fluid and testing.
7. Perform quality control testing on laboratory equipment to maintain integrity in results.
8. Use technical and scientific resources to communicate clinical laboratory testing, and the meaning of abnormal and normal results.
9. Correlate abnormal and normal results to states of wellness.

MLT 102 - Quality Assurance and Quality Control

1 credit hour - 15 hours of lecture; one term.

Identify structure and function of medical laboratories and define healthcare team member roles. Recognize how medical ethics, laboratory mathematics, quality assurance procedures, and regulations affect the clinical laboratory. Prereq(s): *MLT 100, with a grade of C or better, or permission of the MLT Program Coordinator*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply regulations affecting the clinical laboratory.
- Apply ethics of healthcare relevant to a clinical laboratory setting.
- Implement quality assurance and quality control systems in the clinical laboratory including generating control levels, practicing quality assurance techniques, interpreting quality control values, and troubleshooting quality assurance issues.

MLT 103 - Entry Level Clinical Laboratory Testing

4 credits - 45 hours lecture; 30 hours of laboratory; one term

Learn Clinical Laboratory Improvement Amendment of 1988 (CLIA'88) Waived and Point of Care testing methods associated with outpatient drawing stations. Learn accessioning techniques such as centrifugation to prepare samples for clinical laboratory testing. Learn the quality assurance procedures that must be performed to ensure accurate testing results. Lab fee \$125. Prereq(s): *MLT 100, or*

MLT 125 or permission of the MLT program coordinator. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Perform quality assurance activities related to clinical laboratory testing.
- Perform entry-level clinical laboratory testing.
- Perform clerical functions associated with clinical laboratory testing.
- Perform computer functions related to clinical laboratory testing.
- Perform specimen processing related to clinical laboratory testing.

MLT 125 – Phlebotomy

4 credit hours - Three hours of lecture and two hours of college laboratory weekly; one term.

Learn venipuncture theory and techniques, concepts of cardiovascular anatomy, physiology and terminology and an introduction to standard hospital laboratory tests. Lab fee \$100. Coreq(s): *MLT 275 or permission of the program coordinator.* Note: *Laboratory practice focuses on venipuncture, capillary puncture and collection of blood samples for clinical laboratory testing. Students practice some phlebotomy skills on each other under strict supervision of the instructor. Clinical laboratory practicum of 100 hours begins midterm with assigned hours between 6:45 a.m. to 4 p.m. Monday through Friday through the MLT 275 two credit Phlebotomy Practicum course. Final course grade is based on written tests and proficiency exams. Students who receive a final grade below C are awarded an F in the course. Special admission requirements: (1) 18 years of age or older; (2) high school graduate or equivalent; (3) eligibility for ENG 101/ENG 101A; (4) submission of a completed health form with recent physical examination and immunization history; and (5) current certification in Basic Life Support for the Health Provider (CPR) valid through the last day of the practicum. Prepares students for national phlebotomy certification. Eligibility for national certification includes a final grade of C or better in both MLT 125 and MLT 275, and payment of an additional fee to the certifying organization.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Identify the role of phlebotomists in multiple healthcare settings.
2. Apply effective quality assurance practices in conducting phlebotomy procedures including proper equipment selection.
3. Apply safety principles and procedures in skin puncture and phlebotomy.
4. Identify and describe the venipuncture for the sites of specimen collection.
5. Describe the steps in the blood collection technique & order of the draw.
6. Accurately perform and document a basic skin puncture and venipuncture.
7. Explain the use of guidelines (status designation) and values for certain specimen collection.
8. Identify effective customer services skills in phlebotomy.
9. Explain the importance of cultural diversity and age-specific challenges in phlebotomy.

MLT 202 - Clinical Microbiology

4 credit hours - 45 lecture and 30 laboratory; one term.

Recognize pathogenic bacteria including the characteristics of isolation and identification. Develop a familiarity with virology, parasitology, and mycology. This course prepares students for the clinical practicum in a clinical microbiology laboratory. Lab fee \$235. Prereq(s): *MLT 101 and BIO 223 both with a C or better, or permission of the MLT Program Coordinator.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Conduct basic analysis of microbiological specimens, such relating specimens to bacterial species and morphology;
2. Perform basic laboratory procedures related to microscopy, such as: media selection and preparation, isolation, staining techniques for bacteria, aseptic technique, sensitivity testing;
3. Identify basic bacterial genus and species, such as streptococci and staphylococcus;
4. Conduct parasitology testing;
5. Describe testing for fungi, yeast and mycobacterium;
6. Perform quality assurance procedures for microbiological tests, such as maintenance and proper use of the microscope, preparation of staining materials;

7. Discuss and communicate the rationale for culture and sensitivity as related to diagnostics and treatments;
8. Demonstrate communication of findings, such as data entry in laboratory information systems, and documentation of specific findings.

MLT 203 - Clinical Chemistry

4 credit hours - 45 lecture; 30 laboratory

Apply concepts of spectroscopy and protein separation techniques. Review techniques and instrumentation used to analyze specimens in a clinical chemistry laboratory. Correlate clinical data with organ function and the presence of disease conditions. Lab fee \$285.

Prereq(s): *CHE 111 and MLT 101 both with a C or better, or permission of the MLT Program Coordinator.* Crosslisted: *Also offered as MLT 203H: credit not given for both MLT 203 and MLT 203H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Practice safety in the laboratory and apply regulatory guidelines for exposure, such as: performing laboratory tasks and donning appropriate personnel protective equipment.
2. Perform testing with laboratory instruments such as glucose meters, spectrophotometers, and chromatography.
3. Describe testing type and relationship to systems disorders, such as carbohydrate metabolism normal versus altered, and metabolic disorders such as diabetes and insulin production and cell receptors.
4. Classify basic human proteins and nitrogen compounds and relates laboratory testing to normal and abnormal values and body system.
5. Identify renal system anatomy and physiology and function, such as osmosis, hormone regulation, systemic effects, and essential electrolytes.
6. Identify hepatic anatomy, physiology and functions, and systemic effects, such as metabolic products and enzymes, and processes relating to healthy or diseased liver states.
7. Describe the anatomy and physiology of the cardiac system, and differentiate cardiac tissue composition related to healthy and diseased cardiac states.
8. Describe the anatomy and physiology of the respiratory system, and discuss disorders and related testing.

MLT 203H - Clinical Chemistry-Honors

4 credit hours - 45 lecture and 30 laboratory

This is an honors course. Apply concepts of spectroscopy and protein separation techniques. Review techniques and instrumentation used to analyze specimens in a clinical chemistry laboratory. Correlate clinical data with organ function and the presence of disease conditions. Lab fee \$285. Prereq(s): *Eligibility for Honors courses. CHE 111 and MLT 101 both with a grade of C or better, or permission of the Department Chair.* Crosslisted: *Also offered as MLT 203; credit not given for both MLT 203 and MLT 203H.*

Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Practice safety in the laboratory and apply regulatory guidelines for exposure, such as: performing laboratory tasks and donning appropriate personnel protective equipment.
2. Perform testing with laboratory instruments such as glucose meters, spectrophotometers, and chromatography.
3. Describe testing type and relationship to systems disorders, such as carbohydrate metabolism normal versus altered, and metabolic disorders such as diabetes and insulin production and cell receptors.
4. Classify basic human proteins and nitrogen compounds and relates laboratory testing to normal and abnormal values and body system;
5. Identify renal system anatomy and physiology and function, such as osmosis, hormone regulation, systemic effects, and essential electrolytes.
6. Identify hepatic anatomy, physiology and functions, and systemic effects, such as metabolic products and enzymes, and processes relating to healthy or diseased liver states.
7. Describe the anatomy and physiology of the cardiac system, and differentiate cardiac tissue composition related to healthy and diseased cardiac states.
8. Describe the anatomy and physiology of the respiratory system, and discuss disorders and related testing.

MLT 204 - Clinical Immunology/Immunohematology

4 credit hours - 45 lecture and 30 laboratory; one term.

Learn principles and practices of clinical immunology and clinical immunohematology (blood banking). Topics include antibody structure and function, the complement system, and disorders of the immune system. Blood bank topics include blood group systemization, compatibility testing, donor testing, cross matching, specialized testing, and transfusion reaction. Lab fee \$235. Prereq(s): *MLT 101 with a grade of C or better or permission of the MLT Program Coordinator*. Crosslisted: *Also offered as MLT 204H; credit not given for both MLT 204 and MLT 204H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Conduct analysis of immunologic testing;
- Describe antibody and antigen structure and function;
- Conduct testing for autoimmune disorders;
- Describe infectious disease processes, such as: hepatitis, human immunodeficiency syndrome, cold agglutinins, and syphilis;
- Explain how the infectious disease processes are acquired and transmitted;
- Explain the proactive steps that individuals can take to minimize their risk of acquiring infectious diseases that are spread through blood and body fluids or by aerosol inhalation;
- Explain the process of donor processing and the protocols and policies that are implemented to ensure a safe blood supply;
- Perform basic blood banking procedures, such as blood bank screening and crossmatch identification;
- Explain blood donation laboratory testing, transfusions of blood products, and pathology of hemolytic diseases.

MLT 204H - Clinical Immunology/Immunohematology

4 credit hours - 45 lecture and 30 laboratory; one term.

This is an honors course. Learn principles and practices of clinical immunology and clinical immunohematology (blood banking). Topics include antibody structure and function, the complement system, and disorders of the immune system. Blood bank topics include blood group systemization, compatibility testing, donor testing, cross matching, specialized testing, and transfusion reaction. Lab fee \$235. Prereq(s): *MLT 101 with a grade of C or better and eligibility for Honors courses*. Crosslisted: *Also offered as MLT 204; credit not given for both MLT 204 and MLT 204H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Conduct analysis of immunologic testing;
- Describe antibody and antigen structure and function;
- Conduct testing for autoimmune disorders;
- Describe infectious disease processes, such as: hepatitis, human immunodeficiency syndrome, cold agglutinins, and syphilis;
- Explain how the infectious disease processes are acquired and transmitted;
- Explain the proactive steps that individuals can take to minimize their risk of acquiring infectious diseases that are spread through blood and body fluids or by aerosol inhalation;
- Explain the process of donor processing and the protocols and policies that are implemented to ensure a safe blood supply;
- Perform basic blood banking procedures, such as blood bank screening and crossmatch identification;
- Explain blood donation laboratory testing, transfusions of blood products, and pathology of hemolytic diseases.

MLT 205 - Clinical Hematology

4 credit hours - 45 lecture and 30 laboratory; one term.

Demonstrate understanding of hemostasis, hematopoiesis, cell morphology, cell reproduction, and pathology. Recognize correlations of morphology and cell indices as related to healthy states and to blood dyscrasias. In college laboratory, perform both differentiation and manual and automated cell count tests. Lab fee \$285. Prereq(s): *MLT 101 with a grade of C or better, or permission of the Department Chair*. Crosslisted: *Also offered as MLT 205H; credit not given for both MLT 205 and MLT 205H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the function of hematopoietic system and process.

- Perform hematological testing procedures.
- Calculate components of complete blood count to determine blood indices.
- Discuss nonmalignant disorders of red blood cells, white blood cells, and platelets.
- Articulate testing modalities for blood cells.
- Describe the intrinsic and extrinsic pathways in hemostasis and disease conditions related to hemostasis.
- Describe methods for accuracy in testing.
- Document results accurately and report abnormal results appropriately.

MLT 205H - Clinical Hematology

4 credit hours - 45 lecture and 30 laboratory; one term.

This is an honors course. Demonstrate understanding of hemostasis, hematopoiesis, cell morphology, cell reproduction, and pathology. Recognize correlations of morphology and cell indices as related to healthy states and to blood dyscrasias. In college laboratory, perform both differentiation and manual and automated cell count tests. Lab fee \$285. Prereq(s): *Eligibility for Honors courses. MLT 101 with a grade of C or better, or permission of the Department Chair.* Crosslisted: *Also offered as MLT 205; credit not given for both MLT 205 and MLT 205H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the function of hematopoietic system and process.
- Perform hematological testing procedures.
- Calculate components of complete blood count to determine blood indices.
- Discuss nonmalignant disorders of red blood cells, white blood cells, and platelets.
- Articulate testing modalities for blood cells.
- Describe the intrinsic and extrinsic pathways in hemostasis and disease conditions related to hemostasis.
- Describe methods for accuracy in testing.
- Document results accurately and report abnormal results appropriately.

MLT 206 - Advanced Clinical Chemistry

2 credit hours - 30 hours of lecture; one term.

Identify and discuss the specialized areas of the clinical chemistry laboratory such as endocrinology, toxicology and acid base analysis. Prereq(s): *MLT 203 or MLT 203H with a grade of C or better, or permission of the Department Chair.* Coreq(s): *MLT 208 and MLT 277.* Crosslisted: *Also offered as MLT 206H; credit not given for both MLT 206 and MLT 206H.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the effect of age, gender, and other factors on laboratory results.
- Describe the anatomy and physiology of the endocrine system.
- Identify diseases and conditions that can cause abnormal endocrinology results.
- Explain the theory of the blood gas analysis performed in the clinical laboratory.
- Correlate disease states or conditions to the expected blood gas analysis, endocrinology, vitamin/trace elements, and therapeutic drug result.
- Explain the theory of tumor marker analysis performed in the clinical laboratory.
- Perform mathematical calculations in the clinical chemistry laboratory setting.
- Discuss serology/immunology techniques used in the clinical chemistry laboratory.

MLT 206H - Advanced Clinical Chemistry

2 credit hours - 30 hours of lecture; one term.

This is an honors course. Identify and discuss the specialized areas of the clinical chemistry laboratory such as endocrinology, toxicology and acid base analysis. Prereq(s): *Eligibility for Honors courses. MLT 203 or MLT 203H with a grade of C or better, or permission of the Department Chair.* Coreq(s): *MLT 208 and MLT 277.* Crosslisted: *Also offered as MLT 206; credit not given for both MLT 206 and MLT 206H.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the effect of age, gender, and other factors on laboratory results.
- Describe the anatomy and physiology of the endocrine system.
- Identify diseases and conditions that can cause abnormal endocrinology results.
- Explain the theory of the blood gas analysis performed in the clinical laboratory.
- Correlate disease states or conditions to the expected blood gas analysis, endocrinology, vitamin/trace elements, and therapeutic drug result.
- Explain the theory of tumor marker analysis performed in the clinical laboratory.
- Perform mathematical calculations in the clinical chemistry laboratory setting.
- Discuss serology/immunology techniques used in the clinical chemistry laboratory.

MLT 208 - Clinical Review

2 credit hours - 30 hours of lecture; one term.

Provides the Medical Laboratory Technician student with a comprehensive didactic review of all areas of the clinical laboratory.

Prereq(s): *MLT 203 or permission of the MLT Program Coordinator.* Coreq(s): *MLT 206 and MLT 277, or permission of the MLT Program Coordinator.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Correlate hematology results with disease states and conditions.
- Apply prior hematology didactic knowledge to solve hematology exam problems.
- Successfully pass hematology practice exams.
- Correlate immunohematology results with disease states and conditions.
- Apply prior immunohematology didactic knowledge to solve hematology exam problems.
- Successfully pass immunohematology practice exams.
- Correlate clinical microbiology results with disease states and conditions.
- Apply prior clinical microbiology didactic knowledge to solve hematology exam problems.
- Successfully pass clinical microbiology practice exams.
- Correlate clinical chemistry results with disease states and conditions.
- Apply prior clinical chemistry didactic knowledge to solve hematology exam problems.
- Successfully pass clinical chemistry practice exams

MLT 274 - Medical Laboratory Assistant Practicum

2 credit hours - 100 hours clinical; one term

Apply practical theory and skills learned in previous MLT courses in the clinical laboratory assistant laboratory setting under the supervision of a clinical preceptor. Rotate through the areas of a clinical laboratory with a focus on the accessioning process either through simulation or at an assigned clinical rotation laboratory or a combination of both. Clinical fee \$120. Prereq(s): MLT 100, MLT 101, MLT 102 and MLT 103 or by permission of the department chair. Note: Students who receive a final grade below C are awarded an F in the course. Eligibility for national certification includes a final grade of C or better, or work experience as a clinical laboratory assistant, and payment of an additional fee to the certifying organization. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the areas in the clinical laboratory setting that utilize the skills and knowledge of a Medical Laboratory Assistant.
- Procure patient/client whole blood and serum or plasma specimens and process according to procedures and clinical site policies in a core laboratory setting.
- Procure patient/client body fluid specimens other than whole blood and serum or plasma according to procedures and clinical site policies in a core laboratory setting.
- Procure patient/client whole blood specimens according to procedures and clinical site policies in an immunohematology laboratory setting.

Perform donor processing duties according to the procedures and clinical site policies of the immunohematology laboratory.

Procure patient/client specimens and process according to the procedures and clinical site policies of the clinical microbiology laboratory.

Communicate with laboratory staff and other health care professionals in a professional, courteous manner when receiving specimens into the laboratory or communicating by phone or person when a problem occurs with the integrity of a patient specimen.

Utilize the laboratory information system (LIS) to accession all samples into the clinical laboratory workflow.

Perform microbiological testing, including attaining the specimen under aseptic technique, preparing culture media, performing staining techniques, and correctly using a microscope.

Maintain federal and state regulations for standard precautions and OSHA.

Correlate the effects of healthy vs. non-healthy choices and their effects on body systems.

MLT 275 - Phlebotomy Practicum

2 credit hours - 100 hours of clinical practicum; one-term.

Perform phlebotomy procedures in a practicum setting and gain experience drawing blood. Prepares students for national certification as a phlebotomist. Lab fee \$120. Prereq(s): *MLT 100 or permission of the program coordinator*. Coreq(s): *MLT 125 or permission of the program coordinator*. Note: *Special admission requirements: (1) 18 years of age or older; (2) high school graduate or equivalent; (3) eligibility for ENG 101/ENG 101A; (4) submission of a completed health form with recent physical examination and immunization history; and (5) current certification in Basic Life Support for the Health Provider (CPR) valid through the last day of the practicum. Students who receive a final grade below C are awarded an F in the course. Eligibility for national certification includes a final grade of C or better, or work experience as a phlebotomist, and payment of an additional fee to the certifying organization.* Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply laboratory safety principles.
- Apply basic anatomy and physiology principles to the practice of phlebotomy.
- Compare and contrast the purpose of serology, chemistry, and cellular components of lab testing.
- Describe the most common non-blood specimens.
- Discuss the applications of computer technology in laboratory accessioning.
- Analyze the parameters for basic laboratory testing.

MLT 276 - Clinical Hematology Practicum

2 credit hours - 120 hours clinical; one term.

Apply practical theory and skills learned in previous MLT courses in the clinical hematology laboratory setting under the supervision of a clinical preceptor. Students will rotate through the areas of a clinical hematology laboratory either through simulation or at an assigned clinical rotation laboratory or a combination of both. Clinical fee \$60. Prereq(s): *MLT 205 with a grade of C or better, or permission of the MLT Program Coordinator*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Compare and contrast the expected complete blood count (CBC) hematological values in healthy patients vs those with hematological diseases or conditions by using automated laboratory equipment.
- Explain the impact of hematopoietic system, hematological disease states and condition on a patient's overall health.
- Identify morphological changes in red blood cells, white blood cells and platelets using microscopy, staining procedures and manual WBC differentials.
- Correlate abnormal results (high or low), with disease processes.
- Perform hematology techniques such as sedimentation rates, reticulocyte counts, body fluid assessment, and counts that are performed in the clinical hematology laboratory.

Perform coagulation testing such as: prothombin time, partial prothombin time, platelet production and factors assays if performed by the laboratory.

Identify disease conditions related to hemostasis, such as factor deficiencies and coagulopathies.

Perform quality checks to calibrate automated coagulation instrumentation.

Apply proper procurement and storage of specimen, such as: additive to specimen ratios, time specified requirements.

Practice accepted procedures for reporting normal and abnormal results, such as immediate physician notification for abnormal results and high risk situations.

MLT 277 - Clinical Chemistry Practicum

2 credit hours - 120 hours clinical; one term.

Apply practical theory and skills learned in previous MLT courses in the clinical chemistry laboratory setting under the supervision of a clinical preceptor. Students will rotate through the areas of a clinical chemistry laboratory either through simulation or at an assigned clinical rotation laboratory or a combination of both. Clinical fee \$60. Prereq(s): *MLT 203 with a grade of C or better or permission of the MLT Program Coordinator*. Coreq(s): *MLT 206 and MLT 208 or by permission of the MLT program coordinator*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the areas in the clinical laboratory setting, including specialty areas
2. Procure patient/client specimens and process according to procedures and clinical site policies
3. Perform calculations such as creatinine clearance, LDL cholesterol, anion gap, osmolality gap, and calculations associated with preparing testing solutions or making dilutions.
4. Document results using the appropriate metric measurements and site specified methods, such as laboratory information systems.
5. Perform quality checks on automated and manual equipment
6. Perform macroscopic and microscopic urinalysis testing
7. Perform immunology testing for antibodies and antigens using commercially prepared solutions.
8. Maintain federal and state regulations for standard precautions, OSHA, and HIPAA compliance
9. Perform Point of Care Testing (if performed by laboratory), including performing quality checks, documenting results, and communicating to the provider according to site policy and procedure
10. Perform clinical chemistry testing using automated and manual equipment and analyze the results.
11. State the normal and abnormal clinical chemistry laboratory test values relating to body systems and their implications on a patient's health.
12. Correlate the effects of healthy vs non healthy choices and their effects on body systems.

MLT 278 - Clinical Microbiology Practicum

2 credit hours - 120 hours clinical; one term.

Apply practical theory and skills learned in previous MLT courses in the clinical microbiology laboratory setting under the supervision of a clinical preceptor. Students will rotate through the areas of a clinical microbiology laboratory either through simulation or at an assigned clinical rotation laboratory or a combination of both. Clinical fee \$60. Prereq(s): *MLT 202 with a grade of C or better, or permission of the MLT Program Coordinator*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the areas in the clinical laboratory setting, including common specialty areas such as wounds, anaerobes and blood cultures
2. Procure patient/client specimens and process according to procedures and clinical site policies
3. Perform calculations such as urine colony counts, and calculations associated with preparing test solutions, such as additives, preservatives, and buffers.
4. Document results using the appropriate metric measurements and site specified methods, such as laboratory information systems
5. Perform quality checks on automated and manual equipment

6. Perform microbiological testing, including attaining the specimen under aseptic technique, preparing culture media, performing staining techniques, and correctly using a microscope.
7. Maintain federal and state regulations for standard precautions and OSHA
8. State parameters for normal and abnormal microbiology results related to body systems and their implications on a patient's health.
9. Correlate the effects of healthy vs non healthy choices and their effects on body systems.

MLT 279 - Clinical Immunohematology Practicum

2 credit hours - 120 hours clinical; one term.

Apply practical theory and skills learned in previous MLT courses in the clinical immunohematology laboratory setting under the supervision of a clinical preceptor. Students will rotate through the areas of a clinical immunohematology laboratory either through simulation or at an assigned clinical rotation laboratory or a combination of both. Clinical fee \$60. Prereq(s): *MLT 204 with a grade of C or better, or permission of the MLT Program Coordinator.* Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the areas in the clinical laboratory setting, including specialty areas
2. Procure patient/client specimens and process according to procedures and clinical site policies
3. Perform calculations such as quantity of synthetic anti0D (RhoGam) needed and calculations associated with preparing test solutions, such as additives, preservatives, and buffers.
4. Document results using the appropriate metric measurements and site specified methods, such as laboratory information systems
5. Perform quality checks on automated and manual equipment
6. Perform immunohematology testing for antibodies, antigens, cold agglutinins; antibody identification, and cross match and special tests
7. Maintain federal and state regulations for standard precautions, OSHA, and HIPAA compliance.
8. State parameters for normal and abnormal immunohematology results related to body systems and their implications on a patient's health.
9. Discuss hemolytic disease of the newborn including the health of both mother and baby and list 2 ways it can be prevented.

MLT 280-299 - Special Topics in Medical Laboratory Technician

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Focuses on topics of current interest in the area of medical laboratory technology, including courses designed to meet expressed needs and interests within the community. Also for medical laboratory technician students and/or graduates requiring additional course content to qualify for transfer credit, credit by exam, or who wish to meet updated competency requirements for the national certification exam. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-180. Prereq(s): *Will vary depending on course offering.*

Music

MUS 100 - Music Appreciation

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. A nontechnical course for those who wish to enrich their music enjoyment by listening to performances from varying sources ranging from the classical tradition to contemporary jazz. Topics include listening techniques, basic musical forms and the social and historical context for musical creation and popular taste. No previous training in music is required. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Discuss musical topics using appropriate terminology.
2. Identify representative components of select musical styles exemplary of historical periods in Western music history.
3. Identify significant Western art music composers and their musical compositions.
4. Apply understanding of stylistic trends through aural recognition.

5. Explain basic concepts in music, such as rhythm, meter dynamics, tempo, melody, harmony, mode and form.
6. Demonstrate active listening technique.
7. Apply critical thinking skills to deconstruct component parts of a piece of music.

MUS 101 - Music Fundamentals

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Analyze and discuss rhythm, harmony and melody. Evaluate basic elements of musical notation. Apply fundamentals of analysis and transcription. This course is the foundation for further study of music theory and composition. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Analyze and discuss the historical and global impact of Western and non-Western music.
2. Identify specific cultural factors that give shape to select musical cultures.
3. Identify methods and theoretical frameworks for thinking critically about how Western and non-Western music is expressed, explored, confirmed, produced, performed, consumed, and received.

MUS 103 - Music for Classroom Teachers

3 credit hours - Three hours weekly; one term.

Music for classroom teachers with emphasis on basic elements of notation, playing simple classroom instruments and developing an awareness of the child's world of music through creative and improvisatory approaches.

MUS 113 - Music Theory and Ear Training 1

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

A study of diatonic harmony through part writing and analysis of music. Sight singing, writing music from dictation, clefs, intervals and rhythms are studied. Lab fee \$3. Prereq(s): *MUS 101 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 114 - Music Theory and Ear Training 2

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

A study of seventh chords, modulatory progressions and chromaticism using creative composition. Analysis, sight singing and music dictation are continued. Lab fee \$3. Prereq(s): *MUS 113 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring and summer

MUS 120 - Music for Child Care Providers

3 credit hours - Three hours weekly; one term.

Introduction to the use of music for working with children in day care settings, with emphasis on appropriate materials, instruments and songs for each developmental level.

MUS 141 - Class Piano 1

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Teaches beginning basic keyboard techniques including sight reading of early level pieces. Play and write major and minor scales. Play chord progressions, cadences and elementary to early intermediate level repertoire. Lab fee \$3. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 142 - Class Piano 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Continuation in instruction of technical studies, scales, chord progressions, and sight reading. Play early intermediate to intermediate level repertoire. Lab fee \$3. Prereq(s): *MUS 141 or permission of department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 146 - Techniques of Sight Reading

1 credit hour - Two hours weekly; one term.

Students learn to recognize, by eye and ear, scale and chord passages in a melody and to recognize basic harmonic structure and

simple modulation within a composition. They also learn to improvise harmonic accompaniments to simple melodies. Prereq(s): *MUS 141*.

MUS 147 - Piano Pedagogy

3 credit hours - Three hours weekly; one term.

Designed to present a sound foundation for the beginning piano teacher and to provide enrichment for more experienced teachers through an analysis of elements involved in advancing levels of piano proficiency and a survey of current teaching materials.

Prereq(s): *MUS 142 or permission of department chair.*

MUS 151 - Class Voice 1

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Basic singing techniques and principles of correct breathing, tone production, vowel formation and diction. Study material is varied and represents standard vocal literature. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 152 - Class Voice 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

A continuation of MUS 151 with emphasis on voice production and technical proficiency. Students build a repertoire of songs in English, French, German and Italian representing various styles and periods. Prereq(s): *MUS 151 or permission of department chair.*

Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 160 - History of Popular Music

3 credit hours - Three hours weekly; one term.

Explores the various styles and genres that make up modern popular music. Focuses primarily on the pop musics of the western idiom, and analyzes these genres in terms of their historical context, stylistic content and musical impact. By emphasizing inter-relationships between sociological, cultural and musical trends, students will begin to analyze how these musics affect western popular culture in general. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Explain the historical context of popular music

- Identify and describe characteristics of music
- Describe how the various styles of music influenced the development of Rock and Roll
- Explain the emergence of Rock and Roll
- Articulate how the three different trends in 50s Rock and Roll developed
- Draw a time-line diagram of the roots of Rock and Roll

Describe the transition to early 60s Rock and Roll

- Describe the fragmentation of the market
- Identify stylistic characteristics of folk music
- Identify and describe Surf Music and the Dance Craze

Analyze situations involving the Beatles

- Define the musical revolution
- Provide a qualitative description of the three Beatles eras
- Draw a diagram of a timeline of the Beatles Revolution

Analyze Rock and Roll development in terms of the British Invasion

- Identify the main groups
- Explain how the British Popular Music Style developed
- Explain how one group differs from another

Explain the differences and interconnections between Folk Music and Folk Rock

- Explain folk music and folk rock and how they are related
- Characterize the various artists
- Give an example of how of crossover artists
- Discuss how Folk Rock and Folk Music evolved

Compare and contrast the Art and Jazz Rock

- Name several artists that make up the Art and Jazz Rock spectrum

Define Legitimate music

Explain the qualitative relationship between Rock Opera and Rock with Orchestra

Identify and describe Dance Music, Hip-Hop, and Rap

Interpret direct relationships

Infer the implications of relationships

Identify Alternative Styles and the basic characteristics

Identify current understandings of Punk, Alternative and Progressive Rock

Make connection between lecture and listening assignments

MUS 161 - Highlights of Music History: Music of the 20th Century

3 credit hours - Three hours weekly; one term.

A look at new ideas and techniques found in 20th century music from the impressionism of Claude Debussy through the minimalism of Philip Glass. A range of contemporary styles is studied.

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate through written and oral means a general knowledge of the elements of twentieth century music from 1900 to the present.
2. Articulate knowledge of the tonal, harmonic, and rhythmic elements found in twentieth century music.
3. Demonstrate knowledge of important musical compositions written by twentieth century composers.
4. Articulate an understanding of the relationship between twentieth century music and its social, intellectual, and cultural origins.
5. Be able to trace the changes in musical style and form of twentieth century composers.

MUS 162 - Highlights of Music History: Music and the Theater

3 credit hours - Three hours weekly; one term.

A study of opera, musical comedy and other theatrical forms. Investigates interplay between music and requirements of drama.

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate through written and oral means a general knowledge of music for the theatre from its beginnings to the present.
2. Evaluate the appropriateness of the musical settings for the plot and libretto.
3. Articulate a working knowledge of important operas and musical comedies.
4. Articulate understanding of the relationship between works for the musical stage and their social, intellectual, and cultural origins.
5. Be able to trace the changes in operatic styles and related composers.

MUS 163 - Highlights of Music History: Keyboard Masterpieces

3 credit hours - Three hours weekly; one term.

This study of music for keyboard instruments introduces students to great music literature from early organ and harpsichord compositions to works for contemporary synthesizers.

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate a general knowledge of music for the keyboard from its beginnings to the present day.
2. Articulate the elements of the sonata form and its application to keyboard compositions.
3. Articulate an understanding of important works composed for the harpsichord and piano.
4. Articulate the relationship between keyboard works and their social, intellectual, and cultural origins.
5. Be able to trace the changes in keyboard styles from the Baroque through Classical and Romantic periods to the modern synthesizer.

MUS 164 - Highlights of Music History: The Symphony

3 credit hours - Three hours weekly; one term.

A study of the symphony and concerto from their origins in early baroque music through the era of the romantic virtuoso. Course includes listening to music and attending concerts.

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate through written and oral means a general knowledge of symphonic music from its beginnings to the present day.
2. Understand the various elements of sonata form and its application for instrumental ensembles.
3. Articulate understanding of important works composed for a variety of instrumental ensembles.
4. Articulate understanding of the relationship between symphonic works and their social, intellectual and cultural backgrounds.
5. Be able to trace the changes in sonata form found in symphonic music from the Classical period to the present day.

MUS 165 - Highlights of Music History: Jazz

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Analyze the development of jazz from the early 1900s to the present. Recognize various styles and artists important to the evolution of the art form, as well as elements needed for listener appreciation. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Analyze the historical and global impact of jazz.

Identify specific socio-cultural factors that give shape to select musical cultures.

Identify methods and theoretical frameworks for thinking critically about how jazz is expressed, explored, confirmed, produced, performed, consumed, and received.

MUS 167 - Great Composers

3 credit hours - Three hours weekly; one term.

Study of the life and works of a single great composer. Possible composers include Bach, Beethoven, Mozart, Brahms or other major figures. May be repeated once for credit.

MUS 168 - Highlights of Music History: American Music

3 credit hours - Three hours weekly; one term.

Survey of American music from 17th century Pilgrim times to the present. Readings and listening include patriotic songs of the American Revolution, music of religious sects, Civil War songs and composers, native and folk music, 20th century jazz and contemporary styles.

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate a general knowledge and understanding of the elements of American music from its beginning to the present.
2. Demonstrate knowledge of the elements of native and folk music found in American art music.
3. Demonstrate an understanding and appreciation of important works written by American composers.
4. Demonstrate understanding of the relationship of American music to its social, intellectual, and cultural backgrounds.
5. Demonstrate ability to trace the changes in style and form employed by American composers.
6. Demonstrate skill in analytical listening and writing of American music.
7. Demonstrate skill in critical readings of American music.

MUS 169 - Music, Power and Gender

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Considers music ranging from ancient and medieval music to modern rock and alternative music, from Western music to the music of Asia, Africa, the Middle East and South America, as a contested terrain in terms of gender, identity and power. Course uses the perspectives of gender studies and ethnomusicology as well as conventional music scholarship to examine women's contributions to world music, Western classical music and popular American music. Crosslisted: *Also offered as GSS 169; credit is not given for both MUS 169 and GSS 169.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- 1) Discuss the historical and global intersections between gender and music
- 2) Identify specific socio-cultural factors that give shape to select musical cultures.
- 3) Identify methods and theoretical frameworks for thinking critically about how gender is expressed, explored, confirmed, and contested in musical production, performance, consumption, and reception.

MUS 170 - Class Guitar 1

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

An introduction to music and basic techniques of the classical guitar. The course includes sight reading as well as techniques and applications to jazz and popular music. A classical guitar is required. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 171 - Class Guitar 2

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Intensive study of periods of classical guitar music; development of technical and interpretive techniques and of performance ability. Prereq(s): *MUS 170 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 172 - Contemporary Guitar Techniques

2 credit hours - One hour of lecture and two hours of studio weekly; one term.

Introduces guitar performance skills necessary for industrial, studio and live performance. Styles covered include jazz, country, rockabilly, fusion and rock. Emphasizes the development of individual style and the essential techniques for the modern guitarist. Electric or acoustic guitar required. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Perform a riff in three or more different styles (jazz, rock, fusion, rockabilly, country).
2. Play the major and minor scales on the guitar.
3. Make a demo recording.
4. Sight-read a standard commercial score.

MUS 180 – Orchestra

1 credit hour - Three hours of laboratory weekly; one term.

Reading and performance of orchestral works selected from the baroque to contemporary eras. Open to all qualified players; an audition may be required. Programs are prepared for college and public performance and are a regular part of the course. May be repeated for credit; a total of four credits may be earned. Lab fee \$5. Term(s) Typically Offered: Fall and spring

MUS 181 - Jazz Band

1 credit hour - Three hours of laboratory weekly; one term.

Reading and performance of jazz and stageband music. Open to all qualified players; an audition may be required. Programs are prepared for college and public performance and are a regular part of the course. May be repeated for credit; a total of four credits may be earned. Lab fee \$5. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 182 - Concert Choir

1 credit hour - Three hours weekly; one term.

Performance of music literature from the Renaissance through contemporary periods. Programs are prepared for college and public performance and are a regular part of the course. May be repeated for credit; a total of four credits may be earned. Lab fee \$5. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 184 - Concert Band

1 credit hour - Three hours of laboratory weekly; one term.

Reading and performance of concert band and wind ensemble music. Open to all qualified players; an audition may be required. Programs are prepared for college and public performance and are a regular part of the course. May be repeated for credit; a total of four credits may be earned. Lab fee \$5. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

MUS 188 - Chamber Singers

1 credit hour - Three hours weekly; one term.

Explore choral music compositions from antiquity to contemporary music through this small choral ensemble. Participate in performances at college and community events. Course may be repeated for credit; a total of four credits may be earned. Lab fee \$5.

Prereq(s): *Audition required, or approval of instructor or department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify and perform rehearsal warm-up techniques.
2. Employ proper use of vocal techniques for choral singing.
3. Identify performance style best practices.
4. Perform choral singing.
5. Assess the quality of choral singing performances.

MUS 192 - Applied Music: Acoustic Bass

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 192B - Applied Music: Acoustic Bass

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 193 - Applied Music: Bassoon Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 193B - Applied Music: Bassoon Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 194 - Applied Music: Cello Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 194B - Applied Music: Cello Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 195 - Applied Music: Clarinet Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 195B - Applied Music: Clarinet Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 196 - Applied Music: Electronic Synthesizer

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 196B - Applied Music: Electronic Synthesizer

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon*

Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.

MUS 197 - Applied Music: Euphonium Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 197B - Applied Music: Euphonium Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 198 - Applied Music: Flute Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 198B - Applied Music: Flute Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 199 - Applied Music: Acoustic Guitar Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 199B - Applied Music: Acoustic Guitar Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone Typically offered at MC; fall and spring terms.*

MUS 200 - Applied Music: Harp

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 200B - Applied Music: Harp

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 204 - Applied Music: Horn Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 204B - Applied Music: Horn Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 206 - Applied Music: Oboe Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are

scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 206B - Applied Music: Oboe Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 207 - Applied Music: Organ

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 207B - Applied Music: Organ

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 208 - Applied Music: Percussion Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 208B - Applied Music: Percussion Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp*

Saxophone Voice Composition Horn Trombone. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 209 - Applied Music: Piano Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 209B - Applied Music: Piano Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 210 - Applied Music: Saxophone Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 210B - Applied Music: Saxophone Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 211 - Applied Music: Trombone Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 211B - Applied Music: Trombone Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 212 - Applied Music: Trumpet Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 212B - Applied Music: Trumpet Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 213 - Music Theory and Ear Training 3

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Continues studies completed in MUS 114, Music Theory and Ear Training 2. Conduct an in-depth study of chromatic harmony; examine some techniques of 20th century composition. Learn writing in small forms. Continue developing sight singing, dictation and keyboard skills. Analysis of works relating to problems being studied. Lab fee \$3. Prereq(s): *MUS 113 and MUS 114 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Continue the study of traditional harmonic practice through writing, performance, and analysis.
2. Explore the more complex compositional techniques of the late nineteenth century.
3. Read at sight diatonic and chromatic melodies.
4. Increase aural perception of more complex harmonic progressions.
5. Demonstrate knowledge of rudiments of theory through application to composition.

MUS 214 - Music Theory and Ear Training 4

4 credit hours - Three hours of lecture and two hours of laboratory weekly; one term.

Continues studies completed in MUS 213, Music Theory and Ear Training 3. Conduct an in-depth study of chromatic harmony; examine some techniques of 20th century composition, including 12-tone and serial music. Learn writing in small forms. Continue developing sight singing, dictation and keyboard skills. Analysis of works relating to problems being studied. Lab fee \$3. Prereq(s): *MUS 213 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Explain the historical context of 19th Century Form and Theory

- Identify and describe characteristics of tonal music
- Describe how the various styles of music influenced the development of 19th Century Form
- Articulate how the three different trends in Common Practice

Describe the transition to early Romanticism

- Explain the emergence of Romanticism
- Identify stylistic characteristics of late 19th century music
- Identify and describe Neapolitan, Mode Mixture, and Augmented 6th Chords

Analyze situations involving 20th Century Music

- Define the musical revolution
- Provide a qualitative description of Set Theory and Serialism
- Draw a diagram of a timeline of the first 40 years of 20th Century Music

Analyze 12-tone Music in terms of 20th Century Technique

- Identify the main groups
- Diagram and analyze tone-rows and compositional devices of the 12-tone composers
- Explain how one group differs from another

Explain the differences and interconnections between Common Practice, Romanticism and 20th Century compositional techniques

- Explain Common Practice theory and compositional techniques
- Characterize the various composers according to style periods
- Give an example of how certain crossover composers exemplify more than one style period in compositional practices

Identify and transcribe 2-part melodies and chord progressions

- listening and transcribing techniques
- Characterize patterns of chord progressions
- Notate 3-chord, 5-chord, and extended sequences

Perform rhythmic and melodic sight-singing examples

- Interpret direct relationships of intervals
- Infer the implications of relationships of rhythm and pitch
- Sing chromatic melodies
- Clap or play syncopation, hemiola, and compound rhythmic gestures

MUS 215 - Applied Music: Tuba Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 215B - Applied Music: Tuba Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 216 - Applied Music: Viola

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are

scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 216B - Applied Music: Viola

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 217 - Applied Music: Violin Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 217B - Applied Music: Violin Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 218 - Applied Music: Voice Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 218B - Applied Music: Voice Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp*

Saxophone Voice Composition Horn Trombone. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 219 - Applied Music: Electric Bass Guitar Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 219B - Applied Music: Electric Bass Guitar Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 220 - Applied Music: Dulcimer

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.*

MUS 220B - Applied Music: Dulcimer

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.*

MUS 221 - Applied Music: Composition Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 221B - Applied Music: Composition Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours

per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 222 - Applied Music: Conducting Traditional

2 credit hours - 12 weeks of individual instruction, one hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Lab fee \$350. Note: *Individual instructions are one hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 222B - Applied Music: Conducting Traditional

1 credit hour - 12 weeks of individual instruction, one-half hour per week; and 2 weeks of Repertoire and/or Master classes two hours per week; one term.

Receive individual instruction on an instrument or in voice training. In addition, two-hour Repertoire and/or Master classes are scheduled in lieu of individual lessons for two weeks during the term. Study is either on or off campus and practice is required. Juried exam is required at close of term. Course may be repeated for a total of eight credit hours. Nonrefundable lab fee \$250. Note: *Individual instructions are one-half hour lessons. Instruction is available for the following: Bass Conducting Oboe Trumpet Bassoon Electric Bass Guitar Organ Tuba Cello Euphonium Percussion Viola Clarinet Flute Piano Violin Classical or Jazz Guitar Harp Saxophone Voice Composition Horn Trombone.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 230 - Recording Industry Techniques 1

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

This course meets the Technology Requirement. Learn about the principles of sound and acoustics, the components of a recording studio, and the use of software and hardware for audio recording and editing. Explore microphone placement and techniques, signal flow, and basic mixing concepts. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Recognize the principles of sound and acoustics.
- Identify the components of a recording studio.
- Use software and hardware for audio recording and editing.
- Apply microphone placement and techniques.
- Recognize signal flow and basic mixing concepts.

MUS 231 - Recording Industry Techniques 2

3 credit hours - Two hours of lecture and two hours of studio weekly; one term.

Build upon knowledge acquired in Recording Industry Techniques 1, focusing on advanced techniques and practices used in the recording industry. Students will build upon their knowledge of sound and acoustics, recording studio components, software and hardware for audio recording and editing, microphone placement and techniques, signal flow, and basic mixing concepts. Learn advanced mixing techniques, signal processing, and mastering. Prereq(s): *MUS 230 or permission of Academic chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Use advanced signal processing tools to manipulate audio
Recognize advanced mixing techniques
Apply mastering techniques
Identify and troubleshoot common recording problems

MUS 260 - History of Music 1

3 credit hours - Three hours weekly, one term.

Examine the development of music in the western world from the period of ancient Greece to the middle baroque period. Emphasis on a stylistic analysis of the music. Prereq(s): *MUS 101 or permission of department.* Note: *Although MUS 260 and MUS 261 can be taken in either order, the sequential order is recommended.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Identify significant Western art music composers and works from antiquity, the Middle Ages, Renaissance, and Baroque periods.
Analyze components of select musical styles and compositions exemplary of antiquity, the Middle Ages, Renaissance, and Baroque periods.
Apply understanding of stylistic trends through aural recognition and score analysis of music of antiquity, the Middle Ages, Renaissance, and Baroque periods.
Evaluate social and cultural trends that give shape to musical expression of antiquity, the Middle Ages, Renaissance, and Baroque periods.

MUS 261 - History of Music 2

3 credit hours - Three hours weekly, one term.

Survey the development of music in the western world from the late baroque period through the nineteenth century. Emphasis is placed on stylistic analysis of the music. Prereq(s): *MUS 101 or permission of department.* Note: *Although MUS 260 and MUS 261 can be taken in either order, the sequential order is recommended.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Identify significant Western art music composers and works from the late Baroque, Classical, and Romantic periods.
2. Analyze components of select musical styles and compositions exemplary of the late Baroque, Classical, and Romantic periods.
3. Apply understanding of stylistic trends through aural recognition and score analysis of music of the late Baroque, Classical, and Romantic periods.
4. Evaluate social and cultural trends that give shape to musical expression of the late Baroque, Classical, and Romantic periods.

MUS 262 - World Music: Music as Culture

3 credit hours - Three hours weekly, one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Use music as an entry into a variety of cultures, social classes and populations. The course introduces students to experiences, perspectives and values different from those found among the dominant populations of the United States and western Europe. Materials will be drawn from traditions throughout the globe to illustrate issues of historical and contemporary significance, including the impact of race, class and gender on music. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 263 - West African Music and Dance

3 credit hours - One hour of lecture and three hours of studio weekly; one term.

Study the practical and theoretical traditions of West African music and dance. Experience the rhythms, songs, movements, and languages of Ghana and other West African countries using an interdisciplinary approach that reflects the integrated nature of drumming, dancing, and singing in West Africa. Perform a range of musical styles and a variety of traditional and contemporary choreographies. Crosslisted: *Also offered as DAN 263; credit is not given for both MUS 263 and DAN 263.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

MUS 280-299 - Special Topics in Music

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An in-depth study of one aspect of music or one musical composition. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should

check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Nursing

NUR 120 - Foundations for Nursing

7 credit hours - 4 hours lecture per week and 90 hours of directed laboratory per term; one term.

Gain acquired nursing concepts, principles, and skills to provide care that optimizes the health and wellness for one adult client with alterations in functioning of biopsychosocial systems that have predictable outcomes. Lab fee \$425. Clinical fee \$450. Prereq(s): *BIO 231 or BIO 233 or equivalent with grade of B or better. Coreq(s): NUR 121 and NUR 122 and BIO 232 or BIO 234 or equivalent.*

Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Care Provider: The nursing student begins to utilize the 5 steps of the nursing process to determine and provide nursing care that is holistic, systematic, evidence-based, safe and grounded in understanding of the sciences, humanities, cultural diversity and nursing theory to adult clients.

NUR 120 Sub Learning Outcomes for Care Provider:

Begins to develop evidenced-based nursing care based on the application of the sciences, humanities, and nursing theory.

Begins to utilize the use of the nursing process to provide safe and accurate nursing care to adult medical-surgical clients and their families in various settings.

Delivers care that is holistic, systematic, evidenced-based, culturally sensitive and safe for 1 adult medical-surgical client and their families.

2. Investigator: The nursing student utilizes acquired data to recognize normal patterns of health, begins to recognize abnormal alterations in functioning and question assumptions. All adult clients are approached with a curiosity resulting in safe clinical decisions that improves the quality of care.

NUR 120 Sub Learning Outcomes for Investigator:

Recognizes normal patterns of health and begins to recognize deviations in functioning and question assumptions for the adult medical-surgical client.

Begins to recognize variations along the developmental continuum in the individual adult medical-surgical client.

Begins to utilize health care technologies to promote, analyze, interpret, and integrate data to improve adult medical-surgical client outcomes.

3. Professional: The nursing student begins to implement the professional role in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse.

NUR 120 Sub Learning Outcomes for Professional:

Begins to demonstrate behaviors that reflect confidentiality, integrity, responsibility and professional ethics.

Begins to demonstrate accountability in implementing the prescribed care regimen for the client with predictable health problems within the legal, ethical and regulatory frameworks of nursing practice.

Begins to demonstrate a commitment to ongoing self-improvement and self-analysis of professional performance.

4. Collaborator: The nursing student begins to collaborate with adult clients, families and the health care team to provide coordinated care that is holistic, safe and individualized.

NUR 120 Sub Learning Outcomes for Collaborator:

Begins to collaborate with peers, faculty, and identify selected members of the interdisciplinary health care team to optimize the understanding of client care in a variety of settings.

5. Educator: The nursing student begins to utilize teaching and learning strategies to promote knowledge that optimizes decisions related to health and wellness for adult clients, families, peers and the community.

NUR 120 Sub Learning Outcomes for Educator:

Begins to identify the teaching needs that promote positive health and wellness outcomes for adult medical-surgical clients and their families.

Identifies technology resources used to develop and implement client education.

Begins to evaluate the effectiveness of client teaching and modifies as necessary to achieve positive health outcomes for adult medical-surgical clients and their families.

6. **Communicator:** The nursing student begins to utilize professional and therapeutic communication strategies with adult clients, families, and the health care team to promote positive client outcomes.

NUR 120 Sub Learning Outcomes for Communicator:

Begins to identify therapeutic communication strategies for adult medical-surgical clients of various developmental levels.

Begins to identify professional communication strategies for adult medical surgical clients of various developmental levels.

Begins to utilize technology communicate and document adult medical surgical client related data.

NUR 121 - Basic Physical Assessment

1 credit hour - 11.25 hours of lecture and 11.25 hours of directed laboratory per term; one term.

Acquire nursing assessment skills to provide care for adult clients. Prereq(s): *BIO 231 or BIO 233 or equivalent with grade of B or better.* Coreq(s): *NUR 120 and NUR 122 and BIO 232 or BIO 234 or equivalent.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Care Provider: The nursing student utilizes the health assessment process to develop an individualized nursing plan of care.

NUR 121 Sub Learning Outcomes for Care Provider:

Identify components of the assessment process.

Demonstrate physical assessment skills.

Apply the nursing process through the use of assessment techniques and review of the client systems.

2. **Investigator:** Upon successful completion of the AACC nursing program the student will be able to analyze data, question assumptions and approach all clients with a curiosity resulting in safe clinical decisions that improve quality of care.

NUR 121 Sub Learning Outcomes for Investigator:

Acquires assessment data of a normal adult medical-surgical client.

Recognizes normal physical assessment findings and laboratory data.

3. **Professional:** The nursing student begins to model the professional role in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse.

NUR 121 Sub Learning Outcomes for Professional:

Begins to demonstrate behaviors that reflect confidentiality, integrity of obtained assessment information.

4. **Communicator:** The nursing student begins to model professional and therapeutic communication strategies to promote positive client outcomes.

NUR 121 Sub Learning Outcomes for Communicator:

Gain knowledge of and begins to demonstrate professional communication skills.

Demonstrates documentation of assessment findings.

NUR 122 - Nursing Perspectives 1

1 credit hour - 15 hours of lecture per term.

Acquire an introduction to nursing history and theory, ethical and legal concepts, trends in nursing practice and evidence-based practice, and principles of quality health care. Prereq(s): *BIO 231 or BIO 233 or equivalent with grade of B or better.* Coreq(s): *NUR 120 and NUR 121 and BIO 232 or BIO 234 or equivalent.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered:

Fall and spring

Course Outcomes

Professional: The nursing student begins to model the professional role in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse.

NUR 122 Sub Learning Outcomes for Professional:

Discuss the history of nursing and selected nursing theorist.

Begins to explore the legal and ethical influences on the profession of nursing to include the Nurse Practice Act, Standards of practice and the political process.

2. Collaborator: The nursing student begins to explore concepts to better collaborate with peers about providing holistic, safe and quality health care.

NUR 122 Sub Learning Outcomes for Collaborator:

Begins to explore the utilization of nursing research and evidenced-based nursing.

Begins to explore the allocation of resources.

3. Communicator: The nursing student begins to model professional communication strategies with the health care team to enhance competence and entry into the health care role.

NUR 122 Sub Learning Outcomes for Communicator:

Begins to utilize technology to plan communication strategies to demonstrate competence in required skills.

Begins to develop communication strategies to respond to situations involving legal and ethical issues.

NUR 130 - Nursing of Adult Clients in Health and Illness 1

5 credit hours - 45 hours of lecture and 90 hours of directed laboratory per term.

Develop nursing concepts, principles, and skills to provide care that optimizes the health and wellness of one to two adult clients with alterations in functioning of biopsychosocial systems in medical-surgical settings that have predictable outcomes. Lab fee \$250.

Clinical fee \$250. Prereq(s): *NUR 120, NUR 121, and NUR 122 with a C or better.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Care Provider: The nursing students develop the utilization of the 5 steps of the nursing process to determine and provide nursing care that is holistic, systematic, evidence-based, safe and grounded in understanding of the sciences, humanities, cultural diversity, and nursing theory to adult clients.

NUR130 Sub Learning Outcomes for Care Provider:

Develops evidence-based nursing care based on the application of the sciences, humanities, and nursing theory.

Utilizes the use of the nursing process to provide safe and accurate nursing care to adult medical-surgical clients and their families in various settings.

Delivers care that is holistic, systematic, evidence-based, culturally sensitive, and safe for up to 2 adult medical-surgical clients and their families.

2. Investigator: The nursing student begins to develop data analysis, question assumptions, and approach all adult clients with a curiosity resulting in safe clinical decisions that improve the quality of care.

NUR130 Sub Learning Outcomes for Investigator:

Recognizes and begins to question deviations from optimum health status and uses these to guide safe clinical decisions for the adult medical-surgical client.

Recognizes variations along the developmental continuum in the individual adult medical-surgical client.

Utilizes health care technologies to promote research, analysis, interpretation, and integration of data that aids in developing individualized nursing care plans for the adult medical-surgical client in a variety of settings.

3. Professional: The nursing student develops the implementation of the professional role in ways that reflect integrity, responsibility, ethical practices, and an evolving identity as a nurse.

NUR130 Sub Learning Outcomes for Professional:

Demonstrates behaviors that reflect confidentiality, integrity, responsibility, and professional ethics.

Demonstrates accountability in implementing the prescribed care regimen for the client with predictable health problems within the legal, ethical, and regulatory frameworks of nursing practice.

Demonstrates a commitment to ongoing self-improvement and self-analysis of professional performance.

4. Collaborator: The nursing student develops collaboration with adult clients, families, and the health care team to provide coordinated care that is holistic, safe, and individualized.

NUR130 Sub Learning Outcomes for Collaborator:

Collaborates with peers, faculty, and begins to collaborate with selected members of the interdisciplinary health care team to optimize the understanding of client care in a variety of settings.

Recognizes the need to advocate for adult medical-surgical clients and their families in various settings with appropriate members of the interdisciplinary health care team to provide safe, organized, and prioritized care.

5. Educator: The nursing student develops the utilization of teaching and learning strategies to promote knowledge that optimizes decisions related to health and wellness for adult clients, families, peers, and the community.

NUR130 Sub Learning Outcomes for Educator:

Assesses the educational need, begins to plan and implement educational strategies that promote positive health and wellness outcomes for adult medical-surgical clients and their families.

Begins to utilize technology resources used to develop and implement client education.

Evaluates the effectiveness of client teaching and modifies as necessary to achieve positive health outcomes for adult medical-surgical clients and their families.

6. Communicator: The nursing student develops the utilization of professional and therapeutic communication strategies with adult clients, families, and the health care team to promote positive client outcomes.

NUR130 Sub Learning Outcomes for Communicator:

Identifies therapeutic communication strategies for adult medical-surgical clients of various development levels.

Identifies professional communication strategies for adult medical-surgical clients of various developmental levels.

Utilizes technology to communicate and document adult medical-surgical client related data.

NUR 131 - Maternal, Newborn Nursing and Women's Health

4 credit hours - 30 hours of lecture and 90 hours of directed laboratory per term.

Develop nursing concepts, principles, and skills to provide care that optimizes the health and wellness of one to two adult clients. The focus is specific to women's health from adolescence through menopause and initial care of the newborn that have predictable outcomes to include both healthy women and newborns as well as those with alterations of functioning of biopsychosocial systems.

Lab fee \$250. Clinical fee \$250. Prereq(s): *NUR 120, NUR 121 and NUR 122 with a grade of C or better.* Location(s) Typically

Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Care Provider: The nursing student develops the utilization of the 5 steps of the nursing process to determine and provide nursing care that is holistic, systematic, evidence-based, safe and grounded in understanding of the sciences, humanities, cultural diversity and nursing theory to women and newborn clients.

NUR 131 Sub Learning Outcomes for Care Provider:

Develops evidence-based nursing care based on the application of the sciences, humanities, and nursing theory.
Utilizes the use of the nursing process to provide safe and accurate nursing care to women and newborn clients and their families in various settings.
Delivers care that is holistic, systematic, evidence-based, culturally sensitive, and safe for women and newborn clients and their families.

2. Investigator: The nursing student begins to develop data analysis, question assumptions, and approach all women and newborn clients with a curiosity resulting in safe clinical decisions that improve the quality of care.

NUR 131 Sub Learning Outcomes for Investigator:

Recognizes and begins to question deviations from optimum health status and uses these to guide safe clinical decisions for women and newborn clients.
Recognizes variations along the developmental continuum in the individual women and newborn clients.
Utilizes health care technologies to promote research, analysis, interpretation and integration of data that aids in developing individualized nursing care plans for women and newborn clients in a variety of settings.

3. Professional: The nursing student develops the implementation of the professional role in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse.

NUR 131 Sub Learning Outcomes for Professional:

Demonstrates behaviors that reflect confidentiality, integrity, responsibility, and professional ethics.
Demonstrates accountability in implementing the prescribed care regimen for the client with predictable health problems within the legal, ethical and regulatory frameworks of nursing practice.
Demonstrates a commitment to ongoing self-improvement and self-analysis of professional performance.

4. Collaborator: The nursing student develops collaboration with women and newborn clients, families and the health care team to provide coordinated care that is holistic, safe and individualized.

NUR 131 Sub Learning Outcomes for Collaborator:

Collaborates with peers, faculty, and begins to collaborate with selected members of the interdisciplinary health care team to optimize the understanding of client care in a variety of settings.
Recognizes the need to advocate for women and newborn clients and their families in various settings with appropriate members of the interdisciplinary health care team to provide safe, organized and prioritized care.

5. Educator: The nursing student develops the utilization of teaching and learning strategies to promote knowledge that optimizes decisions related to health and wellness for women and newborn clients, families, peers and the community

NUR 131 Sub Learning Outcomes for Educator:

Assesses the educational need, begins to plan and implement educational strategies that promote positive health and wellness outcomes for women and newborn clients and their families.
Begins to utilize technology resources used to develop and implement client education.
Evaluates the effectiveness of client teaching and modifies as necessary to achieve positive health outcomes for women and newborn clients and their families.

6. Communicator: The nursing student develops the utilization of professional and therapeutic communication strategies with women and newborn clients, families, and the health care team to promote positive client outcomes.

NUR 131 Sub Learning Outcomes for Communicator:

Identifies therapeutic communication strategies for women and newborn clients of various developmental levels.
Identifies professional communication strategies for women and newborn clients of various developmental levels.
Utilizes technology to communicate and document women and newborn client related data.

NUR 180 - LPN, Paramedic or Veteran to RN Transition

2 credit hours - 90 hours of directed lab; one term.

Formerly NUR 180 - Veteran to RN Transition Gain supervised and directed laboratory experiences to prepare the Licensed Practical Nurse, Paramedic, Navy Corpsman, and/or Army Medic to transition into the role of the Registered Nurse. Lab fee \$50. Clinical fee \$100. Prereq(s): BIO 231(with a grade of B or better) and BIO 232 or BIO 233(with a grade of B or better) BIO 233 - Anatomy and Physiology 1 and BIO 234, PSY 111 and PSY 211, and ENG 101/ENG 101A and ENG 102, general education mathematics, BIO 223 with grades of C or better. Note: Requires dual enrollment with American Public University System and permission of the Director of Nursing and Healthcare Initiatives. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Maintain standards of professional practice to include holistic care across the settings, legal/ethical behaviors and life-long learning in concert with the Maryland Nurse Practice Act.
- Communicate in an appropriate and therapeutic manner to promote positive client outcomes.
- Assess holistically and systematically, the health status of individuals, families and communities to determine health care needs.
- Apply critical thinking skills within the framework of the five steps of the nursing process to ensure the delivery of safe, accurate care including accuracy with dosage calculations for safe medication administration.
- Provide nursing care based on the understanding of the sciences, humanities, nursing theory, research, and personal experiences that is global, culturally relevant and maintains client's rights and dignity.
- Identify learning needs of clients.
- Develop plans to assist clients in achieving their health goals.
- Implement teaching to assist clients in achieving their health goals.
- Collaborate with clients, families, and other members of the health care team to ensure holistic, individualized care with appropriate allocation of human and material resources across the health care continuum.

NUR 220 - Nursing of Adult Clients in Health and Illness 2

5 credit hours - 45 hours lecture and 90 hours of directed laboratory per term.

Develop nursing concepts, principles, and skills to provide care that optimizes the health and wellness of two adult clients and one mental health client with alterations in functioning of biopsychosocial systems in mental health and medical-surgical settings that have predictable outcomes. Lab fee \$250. Clinical fee \$250. Prereq(s): NUR 130 with a grade of C or better. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Care Provider: The nursing student will continue to develop the utilization of the 5 steps of the nursing process to determine and provide nursing care that is holistic, systematic, evidence-based, safe and grounded in understanding of the sciences, humanities, cultural diversity and nursing theory to mental health and medical-surgical clients.

NUR 220 Sub Learning Outcomes for Care Provider:

- Continues to develop evidence-based nursing care based on the application of the sciences, humanities, and nursing theory.
- Utilizes and refines the use of the nursing process to provide safe and accurate nursing care to adult medical-surgical, mental health clients and their families in various settings.
- Delivers care that is holistic, systematic, evidence-based, culturally sensitive, and safe for adult medical-surgical, mental health clients and their families.

2. Investigator: The nursing student will continue to develop data analysis, question assumptions, and approach all mental health and medical-surgical clients with a curiosity resulting in safe clinical decisions that improve the quality of care.

NUR 220 Sub Learning Outcomes for Investigator:

- Recognizes, questions, and begins to investigate deviations from optimum health status and uses these to guide safe clinical decisions for the adult medical-surgical and mental health client.
- Analyzes variations along the developmental continuum in the individual adult medical-surgical and mental health client.
- Utilizes various health care technologies to promote research, analysis, interpretation, and integration of data that aids in developing individualized nursing care plans for the adult medical-surgical and mental health client in a variety of settings.

3. **Professional:** The nursing student will continue to develop the implementation of the professional role in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse.

NUR 220 Sub Learning Outcomes for Professional:

Articulates and demonstrates behaviors that reflect confidentiality, integrity, responsibility, and professional ethics.
Demonstrates accountability in implementing the prescribed care regimen for the client with health problems within the legal, ethical and regulatory frameworks of nursing practice.
Demonstrates a commitment to ongoing self-improvement and self-analysis of professional performance.

4. **Collaborator:** The nursing student will continue to develop collaboration with mental health and medical-surgical clients, families and the health care team to provide coordinated care that is holistic, safe and individualized.

NUR 220 Sub Learning Outcomes for Collaborator:

Collaborates with peers, faculty, and increases collaboration with members of the interdisciplinary healthcare team to optimize the understanding of client care in a variety of settings.
Begins to advocate for adult medical-surgical, mental health clients and their families in various settings with appropriate members of the interdisciplinary health care team to provide safe, organized and prioritized care.

5. **Educator:** The nursing student will continue to develop utilization of teaching and learning strategies to promote knowledge that optimizes decisions related to health and wellness for mental health and medical-surgical clients, families, peers and the community.

NUR 220 Sub Learning Outcomes for Educator:

Assesses the educational needs, plan and implement appropriate educational strategies that promote positive health and wellness outcomes for adult medical-surgical, mental health clients and their families.
Utilizes technology resources to develop and implement client education.
Evaluates the effectiveness of client teaching and begins to evaluate the learning strategies to modify as necessary to achieve positive health outcomes for adult medical-surgical, mental health clients and their families.

6. **Communicator:** The nursing student will continue to develop utilization of professional and therapeutic communication strategies with mental health and medical-surgical clients, families, and the health care team to promote positive client outcomes.

NUR 220 Sub Learning Outcomes for Communicator:

A. Begins to adapt therapeutic communication strategies for adult medical-surgical and mental health clients of various developmental levels.

B. Begins to adapt professional communication strategies for adult medical-surgical and mental health clients of various developmental levels.

C. Utilizes technology to communicate and document adult medical-surgical and mental health client-related data.

NUR 221 - Nursing Care of Children and Families

4 credit hours - 30 hours lecture and 90 hours of directed laboratory per term.

Develop nursing concepts, principles, and skills to provide care that optimizes the health and wellness of one to two pediatric clients and their families. This includes both healthy children and those with alterations in functioning of one or more biopsychosocial systems with predictable outcomes. Lab fee \$250. Clinical fee \$250. Prereq(s): *NUR 131 and PSY 211 with a grade of C or better.*
Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Care Provider: The nursing student will continue to develop the utilization of the 5 steps of the nursing process to determine and provide nursing care that is holistic, systematic, evidence-based, safe and grounded in understanding of the sciences, humanities, cultural diversity and nursing theory to pediatric clients.

NUR 221 Sub Learning Outcomes for Care Provider:

- Continues to develop evidence based nursing care based on the application of the sciences, humanities, theories of growth and development and nursing theory.
- Utilizes and refines the use of the nursing process to provide safe and accurate nursing care to common to complex pediatric clients and their families in various settings.
- Delivers care that is holistic, systematic, evidence based, culturally sensitive and safe for up to two pediatric clients and their families.

2. Investigator: The nursing student will continue to develop data analysis, question assumptions and approach all pediatric clients with a curiosity resulting in safe clinical decisions that improve the quality of care.

NUR 221 Sub Learning Outcomes for Investigator:

- Recognizes, question and begins to investigate deviations from optimum health status and uses these to guide safe clinical decisions for the pediatric client.
 - Analyzes variations along the developmental continuum in the individual pediatric client and in pediatric populations.
 - Utilizes various health care technologies to promote research, analysis, interpretation, and integration of data that aids in developing individualized nursing care plans for the pediatric client in a variety of settings.
3. Professional: The nursing student will continue to develop the implementation of the professional role in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse.

NUR 221 Sub Learning Outcomes for Professional:

- Articulates and demonstrates behaviors that reflect confidentiality, integrity, responsibility, and professional ethics.
 - Demonstrates accountability in implementing the prescribed care regimen for the client with complex health problems within the legal, ethical and regulatory frameworks of nursing practice.
 - Demonstrates a commitment to ongoing self-improvement and self-analysis of professional performance.
4. Collaborator: The nursing student will continue to develop collaboration with pediatric clients, families and the health care team to provide coordinated care that is holistic, safe and individualized.

NUR 221 Sub Learning Outcomes for Collaborator:

- Collaborates with peers, faculty, and increases collaboration with members of the interdisciplinary healthcare team to optimize the understanding of client care in a variety of settings.
 - Begins to advocate for pediatric clients and their families in various settings with appropriate members of the interdisciplinary health care team to provide safe, organized and prioritized care.
5. Educator: The nursing student will continue to develop utilization of teaching and learning strategies to promote knowledge that optimizes decisions related to health and wellness for pediatric clients, families, peers and the community.

NUR 221Sub Learning Outcomes for Educator:

- Assesses the educational needs, plan and implement appropriate educational strategies that promote positive health and wellness outcomes for pediatric clients and their families.
 - Utilizes technology resources to develop and implement client education.
 - Evaluates the effectiveness of client teaching and begins to evaluate the learning strategies to modify as necessary to achieve positive health outcomes for pediatric clients and their families.
6. Communicator: The nursing student will continue to develop utilization of professional and therapeutic communication strategies with pediatric clients, families, and the health care team to promote positive client outcomes.

NUR 221 Sub Learning Outcomes for Communicator:

- Begins to adapt therapeutic communication strategies for pediatric clients of various developmental levels.
- Begins to adapt professional communication strategies for pediatric clients of various developmental levels.
- Utilizes technology to communicate and document pediatric client related data.

NUR 230 - Nursing Management of Clients with Complex Health Problems and Transition into Nursing

9 credit hours - 60 hours of lecture and 225 hours of directed laboratory per term.

Learn to integrate nursing concepts, principles, and skills to provide care that optimizes the health and wellness of three adult clients with alterations in functioning of biopsychosocial systems in medical-surgical settings that may have unpredictable outcomes. Lab fee \$450. Clinical fee \$450. Prereq(s): *NUR 220 and NUR 221 with a grade of C or better*. Coreq(s): *NUR 231*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Care Provider: The nursing student will integrate the utilization of the 5 steps of the nursing process to determine and provide nursing care that is holistic, systematic, evidenced-based, safe and grounded in understanding of the sciences, humanities, cultural diversity and nursing theory to adult clients.

NUR 230 Sub Learning Outcomes for Care Provider:

Integrates evidence based nursing care based on the application of the sciences, humanities, and nursing theory.

Integrates the use of the nursing process to provide safe and accurate nursing care to complex adult medical-surgical clients and their families in various settings.

Delivers care that is holistic, systematic, evidence based, culturally sensitive and safe for 3 adult medical-surgical clients and their families.

2. Investigator: The nursing student will integrate the analysis of data, question assumptions and approach all adult clients with a curiosity resulting in safe clinical decisions that improve the quality of care.

NUR 230 Sub Learning Outcomes for Investigator:

Recognizes, questions and investigates deviations from optimum health status and uses these to guide safe clinical decisions for the complex adult medical-surgical client.

Analyzes variations along the developmental continuum in the individual adult medical-surgical client.

Utilizes various health care technologies to promote research, analysis, interpretation, and integration of data that aids in developing individualized nursing care plans for the adult medical-surgical client in a variety of settings.

3. Professional: The nursing student will implement the professional role in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse.

NUR 230 Sub Learning Outcomes for Professional:

Articulates and demonstrates behaviors that reflect confidentiality, integrity, responsibility, and professional ethics.

Demonstrates accountability in implementing the prescribed care regimen for the client with complex health problems within the legal, ethical and regulatory frameworks of nursing practice.

Demonstrates a commitment to ongoing self-improvement and self-analysis of professional performance.

4. Collaborator: The nursing student will integrate collaboration with adult clients, families and the health care team to provide coordinated care that is holistic, safe and individualized.

NUR 230 Sub Learning Outcomes for Collaborator:

Collaborates with peers, faculty, and/or members of the interdisciplinary healthcare team to optimize the understanding of client care in a variety of settings.

Advocates for adult medical-surgical clients and their families in various settings with appropriate members of the interdisciplinary health care team to provide safe, organized and prioritized care.

5. Educator: The nursing student will integrate utilization of teaching and learning strategies to promote knowledge that optimizes decisions related to health and wellness for adult clients, families, peers and the community.

NUR 230 Sub Learning Outcomes for Educator:

Assesses the educational need, plan, implement, and refine appropriate educational strategies that promote positive health and wellness outcomes for adult medical-surgical clients and their families.

Utilizes technology resources to develop and implement client education.

Evaluates the effectiveness of client teaching and learning strategies to modify as necessary to achieve positive health outcomes for adult medical-surgical clients and their families.

6. Communicator: The nursing student will integrate utilization of professional and therapeutic communication strategies with adult clients, families, and the health care team to promote positive client outcomes.

NUR 230 Sub Learning Outcomes for Communicator:

Adapts therapeutic communication strategies for adult medical-surgical clients of various developmental levels.
Adapts professional communication strategies for adult medical-surgical clients of various developmental levels.
Utilizes technology to communicate and document adult medical-surgical client related data.

NUR 231 - Nursing Perspectives 2

1 credit hour - 15 hours of lecture per term.

Learn to integrate the dimensions of wellness, ethical and legal concepts, trends in nursing practice, and integrate health concepts in preparation to transition from nursing student to graduate professional nurse. Prereq(s): *NUR 220, NUR 221 with a grade of C or better.* Coreq(s): *NUR 230.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Professional: Upon successful completion of the AACC nursing program, the student will be able to implement one's role as a professional in ways that reflect integrity, responsibility, ethical practices and an evolving identity as a nurse.

NUR 231 Course Student Learning Outcome:

The nursing student implements the professional role in ways that reflect wellness dimensions, integrity, responsibility, ethical practices and an evolving identity as a nurse.

NUR 231 Sub Learning Outcomes for Professional:

1. *Analyzes practice situations which involve legal and ethical principles in the development of the professional role.*
2. *Demonstrates strategies and identify credible resources to promote positive self-care through health behavior choices.*
3. *Utilizes technology to research and develop a professional development plan.*

2. Collaborator: Upon successful completion of the AACC nursing program the student will be able to collaborate with clients, families and the health care team to provide coordinated care that is holistic, safe and individualized for multiple clients in diverse health care settings.

NUR 231 Course Student Learning Outcome:

The nursing student integrates concepts of holistic, safe and quality care to optimize health and wellness.

NUR 231 Sub Learning Outcomes for Collaborator:

1. *Evaluates workplace, economic and political issues as it relates to providing holistic, safe and quality health care.*
2. *Examines integrative and complementary therapies as they promote holistic safe health care.*
3. *Analyzes wellness dimensions and resources necessary to promote optimal self-care and wellness.*

6. Communicator: Upon successful completion of the AACC nursing program the student will be able to utilize professional and therapeutic communication strategies with clients, families and the health care team to promote positive client outcomes.

NUR 231 Course Student Learning Outcome:

The nursing student implements professional communication strategies with the health care team to enhance competence and entry into the professional nursing role.

NUR 231 Sub Learning Outcomes for Communicator:

1. Integrates communication strategies to respond to situations involving legal and ethical issues.
2. Utilizes professional communication strategies to advocate for self, peers and the health care team within the dimensions of wellness.

NUR 280-299 - Special Topics in Nursing

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For students who seek readmission to the nursing program or who are transferring nursing credits from a RN program approved by a state board of nursing. If a review of course outlines from transferred courses identifies omissions in content, students will be required to take from one to eight credits in this course. Courses also may be pursued by practicing registered nurses who wish to update nursing theory. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-400. Prereq(s): *Permission of nursing department.*

Paralegal Studies

LGS 100 - Introduction to the Law

3 credit hours - Three hours weekly; one term.

This course meets the Social & Behavioral Sciences General Education Requirement. Survey topics and skills related to law and jurisprudence. Analyze the history and development of the law and describe how the law affects individuals, government, and businesses in today's society. Discuss constitutional law principles, judicial decision-making, the state and federal court systems. Examine substantive criminal law, family law, contracts, torts, property, and procedural law. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Note: *Not available to paralegal or law and jurisprudence majors to fulfill a required or elective course.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain the meaning of law and its function in society, and the principal sources of legal authority.
- Describe the development of the American legal system, as well as principal historical and modern philosophies of law.
- Define basic legal terminology.
- Describe the structure and function of Maryland and federal courts.
- Differentiate between civil and criminal law, procedural and substantive law, and different legal remedies.
- Analyze statutes and judicial opinions to prepare case briefs and other legal writing.
- Describe the nature of, and general legal rules concerning, constitutional law, torts, contracts, and criminal law.

LGS 111 - Introduction to Paralegal Studies

3 credit hours - Three hours weekly; one term.

Gain a general perspective of the legal system and the role of paralegals within that system. Topics include court systems, jurisdiction, legal research and writing, civil procedure, criminal law and procedure, legal ethics, investigation and interviewing techniques, torts, contracts, family law, estates and trusts, and alternative dispute resolution. Evaluate client scenarios and understand the variety of lenses upon which the law may be viewed. Lab fee \$12. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify areas of law that are available for paralegals.
- Describe ethical standards and duties that govern paralegals, including the application of the Maryland Attorneys' Rules of Professional Conduct.
- Describe the sources of law, including the distinction between primary and secondary sources as well as substantive and procedural law.
- Identify the application of the law across a variety of social and cultural contexts.
- Perform, in a simplified way, many of the tasks performed by paralegals.
- Locate, analyze, and cite Maryland statutory law, including the Maryland Annotated Code and Maryland Rules.

Locate, analyze, and brief Maryland cases, including using proper citation form.
Conduct fundamental legal research using legal encyclopedia, case digests, cases and statutes.
Display critical thinking skills in analyzing problems, conducting fundamental legal research to solve the problems, identifying diversity elements and cultural awareness in client and third party interaction.
Identify the components of and draft a memorandum of law.

LGS 112 - Law Office Practice and Technology

3 credit hours - Three hours weekly; one term.

This course meets the Technology Requirement. Explore the technology that enhances law office management processes and procedures and supports the modern-day practice of law. Gain hands-on experience with software related to case management, timekeeping and billing, docket control, electronic discovery (e-discovery), marketing via the Internet and computer-aided report preparation and presentations. Lab fee \$27. Prereq(s): *Grade of C or better in LGS 111.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Describe ethical responsibilities in attracting and serving clients, including solicitation, competence, confidentiality and conflicts of interest.
2. Identify and use software commonly used in law firms.
3. Complete a timesheet for billable and non-billable time; prepare management reports based on timekeeping records.
4. Discuss on-line tools and resources for the law firm, including researching and marketing.
5. Discuss docket control procedure and set up a tickler system.
6. Explain essential considerations of records management, including document maintenance and electronic filing systems.
7. Organize a client file and describe the procedures for opening, closing, retaining and retrieving the file.
8. Display critical thinking skills in analyzing problems, conducting fundamental legal research to solve the problems.

LGS 113 - Maximize Your Paralegal Education

1 credit hour - 15 hours; one term.

Assists paralegal students in identifying their professional goals. Covered areas include selection of program electives and internships, self-marketing strategies and exploration of transfer options.

Course Outcomes

Upon successful completion of this course, the student will be able to:

Demonstrate an understanding of which strategies will best help achieve his/her career goals.
Define the various marketing techniques to use in finding employment.
Transfer to a four-year institution of his/her choosing to complete a bachelor's degree in paralegal studies.
Determine whether law school is a viable option.

LGS 138 - International Law and Human Rights

3 credit hours - Three hours weekly; one term.

Introduces students to the scope and sources of international law, jurisdiction and dispute mechanism in the international community. Students will explore fundamental human rights, focusing on genocide, civil rights, and war crimes. Students will also discuss arms control and the laws of war. Lab fee \$10. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Note: *Credit is not given for LGS 138 and also CJS 138.* Term(s) Typically Offered: Infrequently

Course Outcomes

Upon successful completion of this course, the student will be able to:

Describe subjects of international law.
Explain the role of the United Nations and international organizations in making, enforcing and adjudicating international law.
Define the scope of international law and its enforceability.
Explain the process of negotiating, ratifying, observing and terminating treaties.
Compare and contrast principles of international jurisdiction.
Define fundamental human rights.
Compare and contrast regional systems of preserving human rights.

Explain the role of the United Nations in preserving human rights.
Explain the role of the United Nations and states in peacekeeping.
Explain the rights of states to use force.
Apply international legal principles relevant to current issues and events in global politics.
Prepare legal brief on current issues in global politics, focusing on legal principles, rather than political, economic or policy concerns.

LGS 141 - Electronic Legal Research

1 credit hour - 15 hours; one term.

Learn and apply computer-assisted legal research strategies to locate primary and secondary sources of law; develop research strategies; identify appropriate databases, formulate and apply diverse search techniques, and evaluate results. Identify appropriate use of print, free online, or paid online legal information sources. Enrollment is limited. Lab fee \$37. Prereq(s): *Grade of "C" or better in LGS 111*. Prereq or Coreq: *LGS 143*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Demonstrate basic skills in solving legal research problems.
Demonstrate low-level skills in use of computer-assisted research libraries and files.
Demonstrate ability to coordinate hardcopy and computer-assisted legal research techniques.

LGS 143 - Legal Research and Writing 1

3 credit hours - Three hours weekly; one term.

Learn techniques of legal research and writing with an emphasis on legal research. Explore topics that include issue identification, an overview of the research process and the American system of law, primary and secondary sources of law, citators, and legal citations. Learn and apply writing skills to complete memoranda and case briefs. Lab fee \$12. Prereq(s): *Grade of C or better in LGS 111 or permission of legal studies director*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Recognize the different types of sources of law.
Recognize the structure of the American court system.
Identify and locate primary sources of law.
Identify and locate secondary sources of law.
Shepardize and Instacite legal authorities.
Use basic legal citations.
Write a case brief.
Research and write a Law Office Memorandum.

LGS 144 - Legal Research and Writing 2

3 credit hours - Three hours weekly; one term.

Learn techniques of advanced legal research and writing with an emphasis on the written aspect of the role of a paralegal. Prepare several written products including case briefs, correspondence, objective memoranda, persuasive memoranda, federal and state court complaints, discovery documents, and motions, including emphasis on detailed legal citation, issue identification and the FIRAC method. Learn and practice oral communication techniques. Lab fee \$47. Prereq(s): *Grade of C or better in LGS 141 and LGS 143*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Recognize proper paragraphing and organization.
Recognize clear and concise language.
Identify relevant versus irrelevant information.

- Identify legal issues and formulate concise issue statements.
- Draft written documents using the FIRAC method.
- Prepare legal correspondence.
- Properly cite to legal sources.
- Prepare office memoranda.
- Prepare litigation pleadings.
- Prepare discovery documents.
- Prepare persuasive memoranda.
- Complete both basic and advanced legal citations.
- Effectively communicate orally in a legal environment.

LGS 156 - Legal Issues in Aging

3 credit hours - Three hours weekly; one term.

Introduces students who are studying for careers in health professions to laws related to the elderly. Students will explore access to care, competency and decision making, euthanasia, suicide, organ procurement and allocation, guardianship, estate planning and transfer of property upon death. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Note: *This course is not considered a legal specialty course for the purpose of earning legal specialty credits in the Paralegal Studies Program. However, it may be applied as a general elective in the Paralegal Studies Program as noted in the program description. Please consult with an advisor before registering for this course.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Analyze a patient's legal capacity and competency.
- Describe the rights of competent and incompetent adults deciding to forego life sustaining procedures.
- Prepare living wills, advance directives and durable health care powers of attorney.
- Chart the role of the court and the judicial process in actions relating to the refusal to undergo life sustaining procedures.
- Describe the powers and limitations of a legal guardian.
- Analyze the liability of health care providers in end of life decision-making.
- Compare and contrast Medicare and Medicaid.
- Describe fiduciary and other duties to the elderly.
- Define death from legal and medical perspectives.
- Define the elements of wills, trusts and gifts.

LGS 160 - Domestic Relations

3 credit hours - Three hours weekly; one term.

Analyze legal matters relating to marriage, divorce, separation, annulment, child support, alimony, adoption, custody and related topics. Examine the practical aspects of the paralegal's role in this field. Lab fee \$12. Prereq(s): *Grade of C or better in LGS 111.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Prepare a simple divorce complaint.
- Recognize grounds and defenses for divorce.
- Discuss the Maryland Marital Property Act.

LGS 165 - Mediation and Alternative Dispute Resolution (ADR)

3 credit hours - Three hours weekly; one term.

Focuses on the application of negotiation, mediation and arbitration as methods of resolving conflicts outside the courtroom. Students will learn the nature of conflict and the specific methods and techniques for resolving conflict. Students will examine the processes and skills involved, the training required and the employment opportunities available in the fast-growing field of alternative dispute resolution (ADR). Note: *Credit is not given for LGS 165 and also BPA 165 and HUS 165.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Infrequently

Course Outcomes

Upon successful completion of this course, the student will be able to:

Describe the concept of conflict, identifying its sources.

- Define conflict.
- Explain how conflict is perceived.
- Define miscommunication.
- Identify how anger, mistrust, and fear relate to resolving conflict.
- Explain parties' responsibilities in conflict management.
- Explain parties' expectations and roles in conflict resolution.

Evaluate alternative dispute resolution (ADR) mechanisms, including negotiation, mediation and arbitration.

- Chart steps in negotiation process.
- Explain mediation applications in community disputes; school mediation; and mediation of civil matters, family matters, administrative matters and labor relations.
- Evaluate mediation preparation and methodologies.
- Evaluate the community mediation model.
- Evaluate the business mediation model.
- Identify steps in mediation process.
- Draft mediation settlement agreements.
- Define arbitration.
- Identify steps in the arbitration process.
- Compare private v. court-annexed arbitration, binding v. nonbinding arbitration, mandatory v. voluntary arbitration.

Define the parameters of confidentiality in the ADR process.

- Identify confidentiality and ethical obligations in negotiations.
- Identify confidentiality and ethical obligations in mediations.
- Identify confidentiality and ethical obligations in arbitration.
- Apply the Standard of Conduct for Mediators to real-life scenarios.
- Apply the Maryland Rules for Mediators to real-life scenarios.

Apply each mechanism to resolve conflicts between individuals, consumers, businesses and employers/employees.

- Compare and contrast negotiation, mediation and arbitration.
- Debate the reasons for selecting one form of ADR over another.
- Analyze problems and determine the most appropriate form of ADR.

Demonstrate skills necessary in conducting negotiations, mediations and arbitrations.

- Identify common personality traits required to successfully conduct negotiations, mediations and arbitrations.
- Determine each student's individual personality strengths and weaknesses to see how each student would be successful in negotiation or in conducting mediations.
- Identify characteristics of a good listener.
- Identify effective communications techniques.
- Identify effective interviewing techniques.

Identify regional and online training programs where appropriate ADR credentials may be obtained.

- Compare local, state and regional programs that conduct training programs for mediators.
- Identify online training and credential programs for mediators.
- Apply Standards of Conduct for Mediators and Maryland Rules as they relate to requirements for mediators.
- Identify various local, state and regional credential programs for mediators.

Explain the range of ADR employment opportunities available.

- Identify local, state and regional job opportunities.
- Identify education and training necessary for mediation and arbitration.
- Identify the current state of the job market for mediators in Anne Arundel County and regionally.

LGS 170 - Civil Procedure

3 credit hours - Three hours weekly; one term.

Gain a basic understanding of civil litigation processes and procedures. Explore topics that include state and federal court systems, pleadings, court documents, discovery, trial, parties, judgments and attacks on judgments. Lab fee \$12. Prereq(s): *Grade of C or better in LGS 111.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain the totality of the litigation process.
- Determine proper jurisdiction and venue.
- File initial pleadings.
- Conduct motions practice.
- Initiate and respond to discovery.
- Identify the elements of trial strategy.
- Identify post-judgment remedies.
- Explain the appeals process.

LGS 171 - Tort Law

3 credit hours - Three hours weekly; one term.

Familiarizes students with all aspects of tort law. Topics include intentional torts, negligent torts, defenses, joint tortfeasors and strict liability. Lab fee \$12. Prereq or Coreq: *LGS 111, LGS 253 or BPA 253*. Note: *Typically offered at MC and OL; fall, spring, and summer terms.*

Course Outcomes

Upon conclusion of this course, the student will be able to:

- Identify intentional torts to the person and property.
- Explain defenses to intentional torts.
- Recognize negligence, its defenses, and causation issues.
- Identify duties owed by owners of land to various categories of people.
- Describe strict liability and product liability issues.

LGS 200 - Real Estate Law for Paralegals

3 credit hours - Three hours weekly; one term.

Learn legal concepts that form the foundation for a basic understanding of a real estate transaction. Use many of the current legal websites to supplement course materials and learn how to research the diverse legal topics covered. Explore such topics as ethics, categories of property, ownership restrictions, legal descriptions of property, real estate licensees, real estate contracts, deeds, property liens, financing, title, settlements, leases, litigation and mortgage foreclosures. Prereq(s): *Grade of C or better in LGS 111.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Create a resource portfolio containing research information and checklists for many areas of real estate.
- Define the terminology found in a real estate transaction.
- Perform many of the functions necessary to bring a real estate transaction from the contract to the closing.
- Respond to a number of hypothetical real estate situations that might occur in a typical law office.
- Prepare a closing statement for a real estate transaction.
- Research and prepare complaints (under attorney supervision) for different types of real estate litigation including mortgage foreclosure.

LGS 205 – Cyberlaw

3 credit hours - Three hours weekly; one term.

Introduces students to emerging laws of cyberspace. Explore methods of investigating and preventing cybercrimes and infringements upon information security. Discuss laws governing e-commerce and intellectual property protections, focusing on landmark and other cases such as Napster. The class will also debate privacy rights and free speech on the Internet. Prereq(s): *CJS 111 or LGS 111 or BPA 253 or LGS 253*. Note: *Students with no prior computer experience are encouraged to take one of the following before taking this course: CTA 100 or CTP 103*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon completion of this course, the student will be able to:

Extract key concepts from cases and statutes.
Determine the appropriate jurisdiction for civil and criminal controversies involving cyberspace.
Analyze fact patterns under applicable levels of Constitutional scrutiny.
Define copyrights.
Define trademarks.
Identify exceptions to copyright usage.
Prepare policies and procedures for information security.
Identify cyber crimes and methods of investigation.
Identify international legal issues relating to cyberspace.
Prepare copyright and/or trademark applications.

LGS 210 - Legal Ethics

3 credit hours - Three hours weekly; one term.

Analyze ethical considerations in the legal field. Explore the history of the legal profession, regulation of lawyers, professional discipline, lawyer-client relationship, lawyer competence, confidentiality, conflicts of interest and the adversary system. Understand the practical aspects of the paralegal's role in the ethical practice of law and what constitutes the unauthorized practice of law. Lab fee \$12. Prereq(s): *Grade of C or better in LGS 111.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify and describe the regulatory structure governing lawyers.
Research, analyze and cite ethical guidelines and regulations that govern attorneys and paralegals, including the Maryland Rules of Professional Conduct.
Describe the unauthorized practice of law; identify and analyze dilemmas presented to paralegals.
Describe the nature and scope of a legal professional's duty of confidentiality.
Identify potential conflicts of interest situations.
Apply ethical guidelines involving advertising and solicitation.
Describe and apply ethical rules governing fees and client funds.
Describe the ethical duty of competence as it relates to attorneys and paralegals.

LGS 215 - Criminal Law

3 credit hours - Three hours weekly; one term.

Examines pertinent aspects of federal and state criminal law. Includes basic elements of law and specific issues of interest to law enforcement. Discuss recent court decisions relating to crimes against the person and property. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify principles of criminal liability.
Describe the criminal process from arrest through post-trial remedies.
Identify incomplete crimes.
Identify crimes against persons, property, morality, and public welfare.
Explain how criminal defenses negate criminal liability.

LGS 216 - Criminal Evidence and Procedure

3 credit hours - Three hours weekly; one term.

Study key issues relating to criminal procedure including an examination of the Fourth, Fifth, Sixth and Eighth Amendments of the United States Constitution. Examine the rules of evidence including concepts such as relevancy, witnesses, hearsay, chain of custody and the trial process with a focus on procedure in Maryland courts. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify key constitutional principles associated with the criminal trial process.
Identify the various stages of the trial process.
Identify the rules of evidence and be able to identify which exceptions apply to those rules.
Define hearsay and explain the exceptions.
Complete a warrant application.

LGS 217 - Constitutional Law

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Examine the United States Constitution and Bill of Rights. Analyze cases focusing on governmental powers and limitations, due process, free speech, privacy rights and religious freedoms and apply these concepts to today's constitutional issues. Note: *This course is not considered a legal specialty course for the purpose of earning legal specialty credits in the Paralegal Studies Program. However, it may be applied as a general elective in the Paralegal Studies Program as noted in the program description. Please consult with an advisor before registering for this course.*
Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify the source and extent of power of each branch of government.
Brief court opinions.
Analyze fact patterns under applicable level of Constitutional scrutiny.
Analyze limitations on governmental powers.
Draft a document that presents logical and well-supported Constitutional arguments based upon a set of facts.

LGS 218 - Introduction to Immigration Law

3 credit hours - Three hours weekly; one term.

Learn the history of immigration and the laws, policies, and regulations regarding citizenship. Study various visa petitions including, but not limited to, non-immigrant visas, family-based immigration, employment-based immigration, asylum/refugee applications and deportation and adoption issues. Discuss the appellate process and post 9/11 issues, including the creation of the Department of Homeland Security (DHS). Lab fee \$5. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Note: *This course is not considered a legal specialty course for the purpose of earning legal specialty credits in the Paralegal Studies program. However, it may be applied as a general elective in the Paralegal Studies degree program as noted in the program description. Please consult with an adviser before registering for this course.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Demonstrate understanding of the history of US immigration, USCIS, and the development of the Department of Homeland Security.

Identify the trends in the immigration process such as country specific quotas and be able to explain why such limitations are utilized and whether they are effective.
Identify the steps, via the immigration process, that have been taken to control the threats to our national security, including border patrol, and mandatory finger printing.
Be able to express orally and in writing the learning objectives through class discussions and written essay questions, including thought questions e.g. Is the USCIS a necessary division of the Department of Homeland Security?

Demonstrate knowledge of events and/or issues and their impact on immigration. Examples: 9/11, World War I and II, and International Gangs. Evaluate the events and/or issues in light of current world climate.

Be able to describe important events/issues of US immigration in relation to world events.
Be able to express orally and in writing the learning objectives through class discussions and written essay questions, including thought questions e.g. Discuss the Central American gang issue, youth offenders/survivors and the problem it poses for asylum cases.
Identify and graph relevant research pertaining to specific country conditions.

Develop an understanding of the cultural and social times in the USA e.g. Patriot Act, illegal immigrants/undocumented workers, and healthcare debate.

Be able to understand the effect of cultural attitudes such as the anti-immigration movement on immigration policies e.g. The effect of hiring legal permanent residents for specialized fields/employment.

Evaluate and assess the impact of the cultural and social times in USA and the world, on the immigration and naturalization process.

- Be able to discuss intelligently contemporary international challenges in the context of policies and events, such as Iraq, Afghanistan, and Darfur.
- Be able to understand the effect that deportation/removal may have on families within the USA.
- Be able to express orally and in writing the learning objectives through class discussions and written essay questions, including thought questions e.g. Should a legal permanent resident who has lived in the USA for nearly their entire life be deported/removed for a crime of moral turpitude?

Develop understanding and demonstrate knowledge of the various immigrant and nonimmigrant visas.

- Be able to identify the proper visa for various clients and discuss the reasoning for such selection.
- Develop understanding between nonimmigrant visa and immigrant visa and the necessary evidence to support each case/application.
- Develop understanding for the cultural differences when ascertaining the validity and/or availability of evidence, such as whether an individual may waive the meeting requirement required for issuance of a K1 Fiance Visa, when there is a religious or cultural restriction.
- Be able to properly complete immigration forms electronically using the USCIS database.
- Be able to express orally and in writing the learning objectives through class discussions and written essay questions, including thought questions e.g. Should a Revocable Divorce granted by a Moroccan court be considered a divorce Nisi or Final divorce when determining whether an individual is eligible to marry?

LGS 220 - Administrative Law

3 credit hours - Three hours weekly; one term.

Examines the nature and function of administrative agencies at the local, state and federal levels. Students will explore the body of laws created by administrative agencies in the form of rules, regulations, orders and decisions and learn about the administrative hearing processes at all levels of government. Prereq or Coreq: *LGS 111 or LGS 253*. Term(s) Typically Offered: Infrequently

Course Outcomes

Upon successful completion of the course, students will be able to:

1. Describe administrative processes in Maryland.
2. Explain judicial review of administrative hearings.

LGS 225 - Environmental Law and Policy

3 credit hours - Three hours weekly; one term.

Understand the practical balance between environmental laws, policies and societal values and how environmental protections are often a dynamic fusion of these factors. Learn the differences between environmental laws and policies and discuss and debate how applicable case laws, statutes, administrative agency rules and regulations impact national, state and local issues affecting the environment. Gain insight into how core legal principles interplay with policy considerations and case law coupled with local statutes form an interlacing framework of policies and legal protections that ultimately determine, influence and define the "environment" as we know it. Lab fee \$5. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Note: *This course is not considered a legal specialty course for the purpose of earning legal specialty credits in the Paralegal Studies program. However, it may be applied as a general elective in the Paralegal Studies degree program as noted in the program description. Please consult with an adviser before registering for this course.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the differences between environmental laws and policies.
- Explain basic legal terminology and concepts.
- Explain how to brief a case.
- Describe legal citation and research techniques and resources.
- Identify public trust doctrine, land use and constitutional protections.
- Identify the Clean Air Act, Clean Water Act and NEPA.
- Describe environmental torts and nuisance.

LGS 230 - Employment Law

3 credit hours - Three hours weekly; one term.

Study the impact of state and federal laws upon employment relationships. Explore substantive and procedural aspects of employment law, focusing on worker's compensation, employment discrimination, pensions and health benefits, wage and hour laws, and labor relations. Lab fee \$12. Prereq(s): *BPA 172 or BPA 253 or LGS 111 or LGS 253 or permission of legal studies director*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Classify employment for the purpose of analyzing vicarious liability.
- Classify employment for the purpose of applying wage and hour laws.
- Draft a valid and enforceable employment contract with appropriate restrictive covenants.
- Draft a demand letter for unpaid wages.
- Prepare a Worker's Compensation claim.
- Prepare an EEOC complaint.
- Draft a complaint for damages related to ERISA and/or COBRA violations.
- Explain the role the NLRB takes in organized labor and labor relations.
- Draft employment policies.

LGS 232 - Construction Law

3 credit hours - Three hours weekly; one term.

Learn current legal principles and practices related to the construction industry and AIA and federal government documents. Learn the legal vocabulary, laws and legal processes applicable to and necessary for work in construction litigation, construction management, architecture, and engineering fields. Understand construction law through analysis of current construction court cases. Discuss sources of law; project delivery systems; mechanics' liens; contract formation and breach; mediation and arbitration; changes, additions, delays, scope of work; surety bonds; insurance; and green building laws. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Note: *This course is not considered a legal specialty course for the purpose of earning legal specialty credits in the Paralegal Studies program. However, it may be applied as a general elective in the Paralegal Studies program as noted in the program description. Please consult with an advisor before registering for this course.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the branches of government and sources of law.

- Define the three branches of government.
- Explain the powers of the federal government and state governments.
- Define the sources of law, including statutes, regulations, case law.
- Explain the classifications of criminal law and civil law.

Explain Project Delivery Systems and Forms of Doing Business.

- Explain and apply traditional design bid build.
- Identify critical aspects of construction management.
- Identify various forms of doing business.

Interpret construction contracts (per AIA and federal government documents).

- Identify elements of contract formation.
- Identify breach (including contract mistakes, modifications, unforeseen building conditions).
- Explain remedies for breach of contract.
- Identify various warranties.

Explain scope of construction contracts.

- Identify parameters and scope of construction contracts.
- Explain contract changes, including additions and deletions.
- Explain delay, impact and inefficiency claims.
- Identify legal issues related to plans and specifications.

Explain scope of construction contracts.

- Identify legal issues related to plans and specifications.
- Explain mechanics' liens.
- Interpret insurance contracts and clauses, including general, liability, property, professional.
- Describe torts related to construction industry.

Identify forms of resolving complaints.

- Explain stages in the litigation process.
- Explore parameters of negotiation.
- Explain mediation process.
- Explain arbitration process.

Explain environmental rights and Green building laws.

- Define environmental vocabulary.
- Identify environmental agencies and parameters.
- Describe environmental laws.
- Describe Green building laws and impact.

LGS 235 - Estates and Trusts

3 credit hours - Three hours weekly; one term.

Examine the laws pertaining to wills, trusts, estates and gifts. Explore the paralegal's role in the process of drafting documents, and handling administration of and filing tax returns for an estate. Lab fee \$12. Prereq(s): *Grade of C or better in LGS 111.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Discuss probate administration in Anne Arundel County.
- Prepare estate documents for probate.
- Discuss wills and simple trusts.

LGS 236 - Intellectual Property Law

3 credit hours - Three hours weekly; one term.

Learn the legal concepts that form the foundation for a basic understanding of the four areas of intellectual property law. Students will study copyrights, trademarks, patents and trade secrets, and their applications in business and the arts. Emphasis will be placed on ethics, research and practice. Upon completion of this course, students will be able to offer valuable assistance to attorneys in this growing field. Lab fee \$10. Prereq(s): *LGS 111, LGS 253 or BPA 253.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Define the concept of intellectual property.

- Explain how intellectual property is perceived.
- Explain the rationale for intellectual property.
- Identify the types of intellectual property.

Outline the contribution of intellectual property and human creativity to the social order.

- Describe the Constitutional basis of U.S. copyright law.
- Identify the public good embodied in intellectual property law.
- Describe the judicial support for copyright law at the highest levels.
- Analyze the subtleties and intangible aspects of intellectual property.
- Define the doctrines under intellectual property.

Describe the ethical considerations of intellectual property practice.

- Itemize the areas of confidentiality required of the paralegal in intellectual property law practice.
- Describe the paralegal's unique relationship with the client in contrast to other areas of legal practice.
- Identify the benefits and inconveniences of ethical behavior in the practice of intellectual property law.

Describe the scope of copyright protection and exceptions.

- Define Copyright.
- Identify protectable works.
- Describe how rights arise.
- Determine the duration of protection.
- Analyze whether a right has been infringed upon.
- Analyze whether a work is being fairly used.
- Identify marking requirements.

Outline the elements of trade secret protection and the defense thereto.

- Define trade secrets.
- Identify protectable secrets.
- Describe how rights arise.
- Determine the duration of protection.
- Analyze whether a right has been infringed upon.
- Determine whether a trade secret has been misappropriated.

Chart the process of patent and trademark searches.

- Describe the power and authority of the U.S. Patent and Trademark Office.
- Chart the steps in a novelty search.
- Describe relevant search methods.
- Describe the patent and trademark applications processes.

Draft a non-competition agreement and /or restriction covenant.

- Define non-compete agreements.
- Describe the legal limitations upon restrictive covenants.
- Research relevant law.
- Identify the elements of a binding and enforceable contract.
- Describe the scope of a non-completion agreement/restrictive covenant.
- Identify the rights and responsibilities of the parties pursuant to a non-competition agreement.

Draft documents for filings, registrations, and licensing.

- Distinguish between the various types of patent, trademark and copyright applications.
- Compare and contrast a divisional application and a non-enabling specification.
- Define the scope of invention in the context of a claim.
- Identify who may file appropriate forms.

Locate applicable federal and state laws.

- Identify primary sources of intellectual property law.
- Identify secondary sources of intellectual property law.
- Breakdown citation components.
- Assess applicability of legal provisions.

Conduct an intellectual property audit.

- Tailor audit questions to fit client.
- Identify scope and nature of audit.
- Interview with managers of target of audit to discuss scope.
- Develop audit questionnaire.
- Gather intellectual property.
- Catalog intellectual property.

LGS 240 - Health Care Law

3 credit hours - Three hours weekly; one term.

Studies the application of law to the provision of health care services. Focus on the creation and maintenance of the treatment relationship; informed consent; duties of health care professionals, institutions and managed-care companies; liability of health care providers; procedure for prosecuting health care claims; reproduction law; and medical research. Lab fee \$10.

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the treatment relationship.
- Analyze the existence and extent of duties of health care providers under specific situations.
- List the factors that must be disclosed to ensure that a patient gives informed consent for medical procedures.
- Describe and analyze grounds for health care provider liability and defenses thereto.
- Prepare pleadings and documents necessary to initiate, maintain and defend a health claim before an arbitration panel and in court.
- Advance and defend competing interests of mother and fetus relating to health care and lifestyle decisions.
- Define the term legal parent in relation to children resulting from assisted reproductive technology in instances of gamete donation, in vitro fertilization, surrogacy and the use of gestational carriers.
- Research, locate and analyze health care law.
- Describe the applications of regulations and laws governing human subjects in medical research.

LGS 241 - Legal Issues of Death, Dying and Organ Transplantation

2 credit hours - Two hours weekly; one term.

Study and application of law related to death, dying and organ transplantation. Focus on the legal definition of death; competency; decision making regarding life-sustaining treatment; suicide; self-determination and procurement and allocation of organs. Study the judicial process relating to patient and proxy decision making and prepare living wills and durable health care powers of attorney. Lab fee \$5.

Course Outcomes

Upon successful completion of the course, the student will be able to:

- Define death from a legal and medical perspective.
- Apply the law and analyze a patient's legal capacity and competency.
- Describe the rights of competent adults deciding to forego life sustaining procedures.
- Describe the rights of incompetent and formerly competent adults in deciding to forego life sustaining procedures.
- Describe the right to forego life sustaining procedures in relation to children.
- Analyze the impact of religion on the right to forego life sustaining treatment.
- Prepare living wills, advance directives and durable health care powers of attorney.
- Chart the role of the court and the judicial process in actions relating to the refusal to undergo life sustaining procedures.
- Analyze factual scenarios and apply the law relating to health care providers' criminal and civil liability for following or failing to follow a patient's decision to refuse life sustaining treatment.
- Explain the legality and illegality of suicide and assisted suicide.
- Debate the legality of organ procurement and allocation procedures.

LGS 242 - Medical Insurance Law

1 credit hour - 15 hours; one term.

Studies the impact of state and federal laws upon health care, managed care and insurance. Covers eligibility for Medicare and Medicaid. Course also focuses on the Comprehensive Omnibus Budget Reconciliation Act (COBRA), portability, the scope of coverage and billing and payment under public and private insurances.

Course Outcomes

Upon conclusion of this course, the student will be able to:

- Compare and contrast Medicare and Medicaid.
- List the eligibility requirements for Medicare and Medicaid.
- Interpret provisions of a health insurance contract.
- Prepare claim and cost report.
- Identify activities that constitute insurance fraud and abuse.
- Compare and contrast traditional group health insurance and health maintenance organizations.
- Analyze federal and state laws and apply such laws to specific factual scenarios.

LGS 250 - Legal Issues for Business

3 credit hours - Three hours weekly; one term.

Learn legal consequences in the launch and operation of a business. Examine practical ways to minimize liability in areas such as business organization and management, obligations created by contracts and torts, and relationships between employers and employees and between creditors and debtors. Study government regulation and property interests, and intellectual property law. Note: *This course is not considered a legal specialty course for the purpose of earning legal specialty credits in the Paralegal Studies program. However, it may be applied as a general elective in the Paralegal Studies program as noted in the program description. Please consult with an adviser before registering for this course.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Use correctly the legal terminology common to the subject areas covered in the course.**
 - Identify terms and appropriately use them to describe the legal issues that impact small business.
 - Discuss legal issues using the appropriate legal terminology.

Identify and resolve legal issues involved in employment relationships, including rights and duties of employers and employees, plus employer liability to third parties for employee conduct.

Demonstrate the use of employment forms as required by law.

Demonstrate an understanding of the legal responsibilities of hiring, maintaining and terminating employees.

Master basics concepts of contract law and gain an overview of fundamental commercial transactions, including contracts for the sale of goods, negotiable instruments and security interests.

Identify the various parts of a legally binding contract

Discuss the responsibilities of all parties to a contract.

Discuss what makes a contract legally binding.

LGS 253 - Business Law 1

3 credit hours - Three hours weekly; one term.

Study basic principles of law and their impact on common business transactions. Explore sources of law, the judicial system, a wrongdoer's liability for harm to society (crimes) and to the injured party (torts), the formation and performance of contracts, the ownership and transfer of personal and real property, principals and their agents and factors to be considered in choosing the form of a business (partnership and corporations) to be organized. Note: *Also offered as LGS 253H; credit is not given for LGS 253 and also LGS 253H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Analyze a hypothetical fact situation and to identify the basic legal issues involved.

Support their conclusions regarding the probable outcome of these issues by presenting logical arguments based on relevant principles of law.

Define the legal terminology common to the subject areas covered in the course.

Describe the procedures for resolving legal disputes.

LGS 253H - Business Law 1 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. Study basic principles of law and their impact on common business transactions. Explore sources of law, the judicial system, a wrongdoer's liability for harm to society (crimes) and to the injured party (torts), the formation and performance of contracts, the ownership and transfer of personal and real property, principals and their agents and factors to be considered in choosing the form of a business (partnership and corporations) to be organized. Crosslisted: *Also offered as LGS 253; credit is not given for LGS 253H and also LGS 253.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Analyze a hypothetical fact situation and to identify the basic legal issues involved.

Support their conclusions regarding the probable outcome of these issues by presenting logical arguments based on relevant principles of law.

Define the legal terminology common to the subject areas covered in the course.

Describe the procedures for resolving legal disputes.

LGS 254 - Business Law 2

3 credit hours - Three hours weekly; one term.

Examine the legal consequences of a variety of business decisions, including the form of business organization. Explore competing interests of buyers and sellers, creditors and debtors, suppliers and consumers. Study of the Uniform Commercial Code follows a sales transaction from drawing up a contract through financing. Evaluate government regulation of business, stressing antitrust laws, employer-employee relations and securities regulations. Survey estate planning and trusts. Prereq(s): *LGS 253 or LGS 253H or BPA 253 or BPA 253H.* Crosslisted: *Also offered as LGS 254H; credit is not given for LGS 254 and also LGS 254H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the basic characteristics of proprietorship, partnerships, limited liability companies, and corporations.
- Analyze fundamental commercial transactions, and to perceive and resolve the legal issues they involve; e.g., contracts for the sale of goods, negotiable instruments, and security interests.
- Recognize the impact of government regulation on business operations and will be able to identify violations of the laws governing restraint of trade, employer-employee relations, securities, and consumer and environmental issues.
- Define selected legal rights and responsibilities of creditors and debtors, including consumer protection laws and bankruptcy proceedings.
- Describe the requirements for transfer of property through trusts and wills and its disposition at death if no valid will is executed.

LGS 254H - Business Law 2 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. Examine the legal consequences of a variety of business decisions, including the form of business organization. Explore competing interests of buyers and sellers, creditors and debtors, suppliers and consumers. Study of the Uniform Commercial Code follows a sales transaction from drawing up a contract through financing. Evaluate government regulation of business, stressing antitrust laws, employer-employee relations and securities regulations. Survey estate planning and trusts. Prereq(s): *LGS 253 or LGS 253H and eligibility for Honors courses.* Crosslisted: *Also offered as LGS 254; credit is not given for LGS 254H and also LGS 254.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the basic characteristics of proprietorship, partnerships, limited liability companies, and corporations.
- Analyze fundamental commercial transactions, and to perceive and resolve the legal issues they involve; e.g., contracts for the sale of goods, negotiable instruments, and security interests.
- Recognize the impact of government regulation on business operations and will be able to identify violations of the laws governing restraint of trade, employer-employee relations, securities, and consumer and environmental issues.
- Define selected legal rights and responsibilities of creditors and debtors, including consumer protection laws and bankruptcy proceedings.
- Describe the requirements for transfer of property through trusts and wills and its disposition at death if no valid will is executed.

LGS 260 - Bankruptcy Law

3 credit hours - Three hours weekly; one term.

Provides a general perspective of bankruptcy law and practice and the roles of paralegals within that system. Topics include Chapter 7 bankruptcy, Chapter 11 bankruptcy and Chapter 13 bankruptcy; investigation and information gathering; researching bankruptcy law; preparing and filing papers and schedules; use of computer-assisted document preparation; automatic stays; turnover of property; exemptions; secured creditors; and discharge. Lab fee \$10.

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the manner in which bankruptcy is a remedy for consumer and commercial debt.
- Locate and analyze the Bankruptcy Code and case law under the code.
- Describe the advantages and disadvantages of bankruptcy.
- Identify under what circumstances a Chapter 7, Chapter 11 or Chapter 13 bankruptcy would be most appropriate.
- Analyze the effect of Chapter 7, Chapter 11 and Chapter 13 bankruptcies under certain factual scenarios.
- Chart and describe the procedure for filing for bankruptcy and discharging debt.
- Locate and prepare bankruptcy forms and schedules, both manually and with computer assistance, pursuant to the Federal Bankruptcy Rules and local rules of procedure.
- Describe the purpose and effect of the automatic stay.
- Investigate bankruptcy claims and potential claims in preparation for filing.
- Analyze dischargeability of secured debt.
- Describe the purpose and effect of discharge of debt in bankruptcy proceeding.

LGS 270 - Gender and the Law

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Study the law as it relates to gender and sexuality. Focus on constitutional scrutiny of gender issues. Explore topics such as: the right to privacy; theories of sexuality and gender; sexual harassment and discrimination in the workplace, education, and the military; bodily integrity and consent; and legal issues of marriage, custody, adoption and assisted reproduction. Lab fee \$10. Note: *This course is not considered a legal specialty course for the purpose of earning legal specialty credits in the Paralegal Studies Program. However, it may be applied as a general elective in the Paralegal Studies Program as noted in the program description. Please consult with an advisor before registering for this course; credit will not be given for LGS 270 and also GSS 270.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze gender issues under applicable test of Constitutional Scrutiny.
- Identify prominent theorists of sexuality and gender and describe their theories as a basis for law.
- Describe the origin of citizens' right to privacy and its application to conception, contraception, abortion, sexual contact and sexuality.
- Research and locate state and federal laws affecting gender in the workplace, education and the military.
- Prepare anti-discrimination and federal compliance policies for the workplace and educational institutions.
- Describe the hostile environment and quid pro quo methods of proving sexual harassment.
- Analyze military regulations impacting women in combat and homosexuality in the military.
- Analyze the law and its impact on gender and sexuality issues relative to child custody, adoption, foster care, assisted reproduction and marriage.
- Prepare a legally binding agreement regarding the creation and/or maintenance of an alternative family.
- Identify and describe the right to free speech as it relates to gender and sexuality.

LGS 271 - Civil Rights Law

3 credit hours - Three hours weekly; one term.

This course meets the Arts and Humanities General Education Requirement. This course meets the Diversity Requirement. Focus on the historical perspective of discrimination based on race, gender, national origin, ethnicity, disability, religion, sexual orientation, and gender identity using United States Supreme Court decisions and federal legislation as well as extrajudicial data and experiences to address and analyze civil rights issues of discrimination, exploitation, and differential treatment in the law and society. Gain perspective on the social and historical structures in place that both advance discrimination and provide remedies for resolving the effects of discrimination. Topics include local government reaction to federal civil rights legislation, voting rights, marriage and reproductive rights, contract rights, employment, education, public accommodation, and property rights. Note: *This course is not considered a legal specialty course for the purpose of earning legal specialty credits in the Paralegal Studies Program. Credit will not be given for LGS 271 and also CJS 271.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify and summarize primary sources of law as a foundation to understanding the application and effect of the law on gender, race, national origin, ethnicity, disability, religion, sexual orientation, and gender identity.
- Summarize and analyze historical and social perspectives of discrimination and exploitation in the evolution of the struggle for equality for gender, race, national origin, ethnicity, disability, religion, sexual orientation and gender identity including exploring the societal context of the political and legal structures.
- Identify and evaluate hidden bias and how such bias affects perspective on differential treatment based on gender, race, national origin, ethnicity, disability, religion, sexual orientation, and gender identity.
- Evaluate judicial recognition for differential treatment based on gender, race, national origin, ethnicity, disability, religion, sexual orientation, and gender identity based on constitutional grounds.
- Analyze the application of equal protection jurisprudence to provide a basis for evaluating discrimination based upon gender, race, national origin, ethnicity, disability, religion, sexual orientation, and gender identity.
- Develop and use strong verbal and written communication skills to evaluate and debate civil rights issues of those discriminated upon based on race, gender, national origin, disability ethnicity, sexual orientation, and gender identity.

Summarize and evaluate methods of local, national, and global community involvement in civil rights issues, identifying organizations, methodology, legal process and ways for individuals to actively become involved.

LGS 275 - Paralegal Internship

3 credit hours - One hour seminar, 10 hours work weekly; one term.

Students gain practical experience in the functions and responsibilities of a paralegal on the job. Placement will afford lawyer-supervised opportunities to integrate and reinforce classroom principles and concepts. May be repeated once for credit. Lab fee \$12. Prereq(s): *14 credits including LGS 111 and LGS 143 with an overall grade point average of 2.5 or better, including a C or better in all LGS courses, or permission of internship coordinator. LGS 144 and LGS 170 advisable.* Note: *Students will be provided with numerous internship opportunities and mentorship in securing placement; however, it is the student's responsibility to be interviewed and accepted by the internship agency.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Write a resume.
- Participate effectively in an interview.
- Prepare accurate timekeeping records.
- Budget time and prioritize legal projects.
- Successfully apply coursework to perform actual paralegal duties and responsibilities under the supervision of an attorney.
- Work effectively with attorneys and legal staff.

LGS 280-299 - Special Topics in Paralegal Studies

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An in-depth series of current topics affecting the legal profession. Emphasis is given to areas of the law that are currently expanding and/or developing. Examples include bankruptcy law, personal injury litigation and workers' compensation. Topics will be specialized and of interest to students as well as to practicing paralegals. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-30. Prereq(s): *LGS 111 or permission of legal studies director.*

Philosophy

PHL 111 - Introduction to Philosophy

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Critically read and evaluate theories regarding the nature of reality, the nature and scope of knowledge and the nature and extent of our ethical obligations to others. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

- Identify and differentiate among the 3 major areas of philosophical inquiry, i.e. ontology, epistemology and ethics.
- Identify major philosophical theories in the Western and/or Asian philosophical tradition and the philosophers associated with them.
- Critically evaluate competing philosophical theories in terms of their respective claims about the human condition, the natural world, the possibility of ultimate truth and the nature of moral obligation.
- Defend a position of your own using the argumentation skills developed in this class.

PHL 115 - Critical and Creative Thinking in the Information Age

3 credit hours - Three hours weekly; one term.

Formerly PHL 100-Critical Thinking This course meets the Arts & Humanities General Education Requirement. Acquire and develop skills that foster more critical and creative thinking. Learn to analyze arguments, evaluate evidence, and find and use information effectively and ethically to shape and support thinking. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as LIB*

115; credit is not given for both PHL 115 and LIB 115. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

PHL 141 - Introduction to Logic

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Analyze formal and informal systems of logic, including categorical propositions and syllogisms, propositional and natural deduction, and formal and informal fallacies. Apply methods and rules for distinguishing between sound and unsound arguments often used by writers, politicians, and scientists. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Apply methods and rules of formal logic to examine and evaluate arguments
- Demonstrate skill in symbolic representations of arguments
- Distinguish between logical principles developed from both the Aristotelian (Traditional) and the Boolean (Modern) standpoints.
- Symbolize and translate ordinary language statements into propositional logic form
- Recognize and label a variety of fallacies that occur in everyday life

PHL 142 – Ethics

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Evaluate ethical theories concerning good and evil, right and wrong behavior, vice and virtue, and the methods used in moral decision-making. Evaluate moral theories and apply them to current case studies. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

- Explain why the study of Ethics and its basic questions are central to living a good life.
- Identify and differentiate between major ethical theories in philosophical discourse, including utilitarianism, deontology, existentialism and virtue ethics.
- Analyze and evaluate competing ethical theories regarding their respective claims about the human condition, the good life, and what constitutes moral action.
- Apply the major theories to specific social and ethical issues, including war and terrorism, duties to animals/the environment, reproductive rights and death and dying.
- Write a personal set of principles for ethical reasoning, decision-making and application to real life situations.

PHL 146 - Contemporary Moral Problems

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Diversity Requirement. Examine some of the currently debated ethical and social issues in our culture such as reproductive rights, sexual violence, death penalty, affirmative action and censorship. Reflect critically on the ways in which factors such as race, gender, ethnicity, class, disability and sexuality operate in our culture and how those factors consequently both shape and are shaped by the terms on which these issues are (or are not) debated. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

PHL 147 - Calling Out Bullshit - The Art of Deceptive Misrepresentation

1 credit hour - 1 hour weekly; one term.

Compare and critique the deluge of information from various sources. Determine the accuracy of information (bullshit or truth) and the effects on society. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Winter and summer

Course Outcomes

- Apply critical thinking skills to weigh the truthfulness of information from a variety of sources.
- Explain why a particular piece of information should be considered true or false.

Explain the impact of a particular falsehood or deception on arguments and discourse in a variety of contexts: statistical, economic, social, and/or political.

PHL 194 - Ethics and the Information Age

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Analyze ethics and moral philosophy as a means for providing a framework for ethically grounded decision making in the information age. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as PHL 194H, CTP 194H, and CTP 194; credit is not given for both PHL 194 and any of the following courses: PHL 194H, CTP 194H, CTP 194.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Explain concepts and theories behind establishing a moral system and ethical judgement.
Apply ethical aspects to issues in computer and data security.
Analyze issues involving privacy and personal autonomy.
Extrapolate the concept of intellectual property to cyberspace.
Appraise implications of the information age on community, social justice, and the public interest.
Evaluate existing codes of professional conduct in the computer technology industry.

PHL 194H - Ethics and the Information Age – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Learn ethics and moral philosophy as a means for providing a framework for ethically grounded decision making in the information age. Prereq(s): *Eligibility for honors courses and ENG 101/ENG 101A.* Crosslisted: *Also offered as PHL 194, CTP 194H, and CTP 194; credit is not given for both PHL 194H and any of the following courses: PHL 194, CTP 194H, CTP 194.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Explain concepts and theories behind establishing a moral system and ethical judgement.
Apply ethical aspects to issues in computer and data security.
Analyze issues involving privacy and personal autonomy.
Extrapolate the concept of intellectual property to cyberspace.
Appraise implications of the information age on community, social justice, and the public interest.
Evaluate existing codes of professional conduct in the computer technology industry.

PHL 201 - Western Religions

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Identify, analyze and compare/contrast the major religious traditions of Western culture. Discuss readings from Judaism, Christianity and Islam. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Course Outcomes

Identify the basic philosophical worldviews underlying the major religions of the West.
Critically analyze important philosophical concepts associated with the major religions of the West.
Compare and contrast these philosophical concepts in order to identify both points of convergence and divergence between them.
Trace the historical development of the major religions from their origins to the present day.
Critically analyze the impact that each of the major Western religions has had upon the culture and politics of the countries into which it has entered.
Critically analyze the impact that the culture and politics of the countries into which each Asian religion has entered has had upon the development of that religion.

PHL 202 - Asian Religions

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn religions most important to cultures of India, China and Japan. Discuss readings from Hinduism, Buddhism, Taoism, Shintoism and other traditions. Prereq(s): *Eligibility for ENG 101/ENG 101A*.

Course Outcomes

- Identify the basic philosophical worldviews underlying the major religions of Asia.
- Critically analyze important philosophical concepts associated with the major religions of Asia.
- Compare and contrast these philosophical concepts in order to identify both points of convergence and divergence between them.
- Trace the historical development of the major religions of Asia from their origins to the present day.
- Critically analyze the impact that the culture and politics of the countries into which each Asian religion has entered has had upon the development of that religion.
- Critically analyze the impact that each Asian religion has had upon the culture and politics of the countries into which it has entered.

PHL 221 - Ancient Greek Philosophy

3 credit hours - Three hours weekly; one term.

Examines Greek philosophy beginning with the Presocratic period. Emphasizes the works of Plato and Aristotle and explores the Hellenic philosophical period. Prereq(s): *Eligibility for ENG 101/ENG 101A*.

Course Outcomes

Evaluate influences that have shaped ancient Greek philosophy.

- Define ancient Greek philosophy.
- Outline social ideas of ancient Greek philosophy.
- Outline political ideas of ancient Greek philosophy.
- Outline cultural ideas of ancient Greek philosophy.
- Outline religious ideas of ancient Greek philosophy.

Analyze and interpret philosophical theories and tenets of selected texts and readings.

- Ability to analyze evidence of the author's philosophical/theoretical inferences.
- Justify inferences by citing evidence in the text.
- Describe the impact of Greek culture on Greek philosophy.
- Sketch the geographical and environment response to Greek philosophy.

Assess how different philosophers address and understand a shared philosophical topic.

- Identify multiple philosophical topics and the diverse array of philosophical perspectives on particular topic.
- Compare multiple approaches to a singular topic.
- Analyze and interpret the various ways a topic is expressed and argued by various Greek philosophers.

Formulate an analysis of an aspect of ancient Greek philosophy.

- Develop form of oral presentation appropriate to topic.
- Present a detailed, clear analysis of a topic related to ancient Greek philosophy.

PHL 223 - Philosophy and Gender

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Learn philosophical themes, issues and problems relevant to gendered experiences in Western culture. Survey major feminist theories of the last 200 years that have helped to define and develop women's (and men's) understandings of themselves. Emphasizes ways in which factors such as class, ethnicity, sexual orientation and gender play roles in the constitution of gender identities and the challenges these pose in reference to community, solidarity and social change. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as GSS 223; credit is not given for both PHL 223 and GSS 223*.

Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

PHL 280-299 - Special Topics in Philosophy

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Study of such philosophical matters as religion, cosmology, environmental ethics and science mysticism. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Physical Education

PHE 215 - Cardio Fitness

1 credit hour - Two hours weekly; one term.

Develop and improve cardiorespiratory endurance, muscular strength, muscular endurance, flexibility and body composition using principles of aerobic exercises. Demonstrate a variety of exercises utilizing the FITT principle (frequency, intensity, time, and type) that can be modified for all fitness levels. Lab fee \$10. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon completion of this course, students will be able to:

1. Examine the dimensions of wellness related to behavior change goals.
2. Analyze pre-, mid-, and post-physical fitness assessments.
3. Demonstrate safe and effective participation in a cardiovascular exercise program.
4. Demonstrate evidence of improvements in the five components of fitness.

PHE 222 - Cardiovascular Kickboxing

1 credit hour - Two hours weekly; one term.

Improvement of cardiovascular strength and endurance through kickboxing. Lab fee \$6.

PHE 227 - Indoor/Outdoor Soccer

1 credit hour - Two hours weekly; one term.

Develop a knowledge of rules, skills and basic strategies of both indoor and outdoor soccer; then demonstrate this knowledge through physical performance to use soccer as a leisure-time activity.

PHE 228 - Martial Arts

1 credit hour - Two hours weekly; one term.

Learn knowledge and acquire skills of martial arts training techniques to enhance physical fitness, self-discipline and the ability to defend one's self using striking, grappling, controlling and throwing techniques. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

PHE 233 - Weight Training

1 credit hour - Two hours weekly; one term.

Physiological development through conditioning programs using various weight-training techniques. Lab fee \$15. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify and discuss the basic principles of muscle structure and function.
- Identify and discuss the principles and methods of resistance training.
- Demonstrate the proper usage of various commercial fitness equipment and free weights utilizing appropriate exercise guidelines and spotting techniques.
- Design a resistance training program specifically for the individual.
- Identify and discuss essential nutrients, tools for healthy eating and guidelines for healthy body composition.
- Discuss methods for enhancing and maintaining motivation to exercise.
- Discuss how to integrate resistance training into a comprehensive fitness program.

PHE 234 - Hatha Yoga

1 credit hour - Two hours weekly; one term.

Learn beginner Hatha yoga postures, yogic breathing practices and the foundations of meditation. Apply mindfulness-based methods including somatosensory awareness, centering and a variety of techniques for focusing the mind. Develop physical strength and flexibility while relieving stress and cultivating inner resiliency through the regular practice of Hatha yoga. Improvements in balance, coordination, and mobility are additional benefits of weekly class participation. Emphasis is placed on creating compassionate connections with body, mind, and emotion at all levels of individual practice. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

At the end of course each student should be able to:

- 1) Identify and discuss the general history, philosophy, and methodology of Hatha Yoga.
- 2) Describe and perform pranayama breathing techniques and demonstrate four distinct practices.
- 3) Demonstrate the proper alignment of beginner level hatha yoga poses and stretches utilizing modifications as appropriate.
- 4) Identify and discuss benefits of mindfulness-based practices, and the variety of modalities available to practitioners of all backgrounds, physical capacities, and interests.
- 5) Research and design a personal practice program specifically for the individual.
- 6) Develop strategies for enhancing motivation and creating mindful habits as vehicles for maintaining regular contemplative practices.
- 7) Explain the importance of focused attention, neutral awareness, compassion, and other components of mindfulness and meditation on mental and physical health and overall well-being.

PHE 236 - Golf 1

1 credit hour - Two hours weekly; one term.

Demonstrate progressive development of skills and strategies of golf. Apply the basic rules of the sport to engage in skill development activities and games. Lab fee \$50. Note: *Equipment is provided for the course including clubs, golf bag, balls, and tees.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. Demonstrate proficiency in the basic individual skills of golf.
2. Apply the basic rules of golf while engaging in skill development activities and games.
3. Demonstrate appropriate competitive etiquette and good sportsmanship while participating in golf.

PHE 253 – Volleyball

1 credit hour - Two hours weekly; one term.

Progressive development of skills and strategies of volleyball.

PHE 266 - High Intensity Interval Training

1 credit hour - Two hours weekly; one term.

Develop cardiorespiratory endurance, muscular strength, and muscular endurance using high-intensity interval training (HIIT). Demonstrate exercises using alternating bouts of brief higher intensity intervals with either rest or lower intensity workloads throughout an exercise routine. Lab fee \$10.

Course Outcomes

Upon completion of this course, students will be able to:

1. Examine the dimensions of wellness related to behavior change goals.
2. Analyze pre-, mid-, and post-physical fitness assessments.
3. Demonstrate safe and effective participation in a high-intensity interval training exercise program.
4. Demonstrate evidence of improvements in the five components of fitness.

PHE 267 – Basketball

1 credit hour - Two hours weekly; one term

Develop a knowledge of the basic skills, strategies, and rules associated with the game of basketball. Apply the basic rules of the sport to engage in skill development activities and games while improving current level of physical fitness through a combination of aerobic and anaerobic exercise. Lab fee \$10.

Course Outcomes

Upon completion of this class, student will be able to:

- Demonstrate proficiency in the basic individual skills and strategies of basketball.
- Apply the basic rules of the sport of basketball while engaging in skill development activities and games.
- Demonstrate appropriate competitive etiquette and good sportsmanship while participating in one-on-one, three-on-three, and five-on-five competitions.
- Improve physical conditioning through a combination of aerobic and anaerobic exercise.
- Promote teamwork and team strategy through verbal and non-verbal communication.
- Demonstrate the fundamental skills covered in class to instruct youth-level basketball audience.

PHE 298 - Athletic Training Internship

3 credit hours - Three hours weekly; one term.

Designed for students interested in pursuing a career in sports medicine. Students gain practical experience working as student athletic trainers in the school athletic program. Gives students insight, knowledge and practical application in all areas of sports-related injuries. Prereq(s): *HEA 295 and completion of a minimum of 12 credit hours with a GPA of 2.0 or higher.*

Physical Science

PHS 100 - General Physical Science

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Explore science in the context of classroom demonstrations, laboratory activities, and the student's personal experiences. Apply the fundamental principles of physics and chemistry to observable phenomena. Develop critical thinking skills, evidence-based reasoning, and the ability to implement the scientific method. Lab fee \$30. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as PHS 100H; credit is not given for both PHS 100 and PHS 100H.* Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Apply scientific terms related to motion, chemistry, electricity, magnetism, and waves to real-world situations in a meaningful way
- Create visual representations to communicate understanding of a situation
- Compare and contrast related scientific concepts
- Apply scientific laws to predict or explain the behavior of an object or system
- Design and carry out an experiment to test a scientific hypothesis
- Interpret experimental results using scientific principles and theories

PHS 100H - General Physical Science – Honors

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This is an honors course. This course meets the Biological and Physical Sciences General Education Requirement. Explore science in the context of classroom demonstrations, laboratory activities, and the student's personal experiences. Apply the fundamental principles of physics and chemistry to observable phenomena. Develop critical thinking skills, evidence-based reasoning, and the ability to implement the scientific method. Lab fee \$30. Prereq(s): *Eligibility for honors courses and ENG 101/ENG 101A.* Crosslisted: *Also offered as PHS 100; credit is not given for both PHS 100H and PHS 100.* Location(s) Typically Offered: Arnold Main Campus (MC) and Arundel Mills (AM) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Apply scientific terms related to motion, chemistry, electricity, magnetism, and waves to real-world situations in a meaningful way
- Create visual representations to communicate understanding of a situation
- Compare and contrast related scientific concepts
- Apply scientific laws to predict or explain the behavior of an object or system
- Design and carry out an experiment to test a scientific hypothesis

Interpret experimental results using scientific principles and theories

PHS 107 - Geology of Maryland

3 credit hours - Three hours of lecture weekly; one term.

Learn the formation and evolution of the bedrock and landscapes of the main physiographic provinces of Maryland. Investigate the interactions of geologic processes through time that have produced Maryland's diverse landforms, drainage patterns, soils, and water and mineral resources. Recognize the geologic hazards of Maryland's past and present, and anticipate future hazards. Prereq(s): *Eligibility for ENG 101/ENG 101A. Crosslisted: Also offered as GEO 107; credit is not given for both PHS 107 and GEO 107. Note: This course does not satisfy the curricular requirements for a laboratory science course.*

Course Outcomes

Summarize the formation and evolution of the main physiographic provinces of Maryland

- Classify observed landscapes into physiographic provinces.
- Summarize the boundaries and major topographic and geologic features for physiographic provinces in Maryland.
- Describe continuity of physiography with adjoining States.
- Use and interpret topographic maps.

Characterize the minerals, fossils, rocks, and rock deformation in Maryland

- Explain the composition and structure of geologically and economically important minerals.
- Distinguish between hand samples of geologically and economically important minerals.
- Explain igneous, sedimentary, and metamorphic processes and rock formations.
- Distinguish between hand samples of major igneous, sedimentary, and metamorphic rocks.
- Introduce geologically important fossil types and fossil collecting sites.
- Explain the process of dating the age of rocks, fossils, and geologic events
- Use the Geologic Time Scale to order geologic events.
- Interpret geologic structures as the result of forces that deform rock.
- Use and interpret geologic maps.

Study the formation and evolution of bedrock in Maryland.

- Summarize the theory of plate tectonics, and the origin and evolution of the ocean basins and continents.
- Describe the processes and products of weathering, erosion, sedimentation, and diagenesis
- Correlate the origin and distribution of igneous, sedimentary, and metamorphic rocks to plate tectonics: Precambrian and Paleozoic Maryland.
- Correlate the origin and distribution of igneous, sedimentary, and metamorphic rocks to plate tectonics: Mesozoic and Cenozoic Maryland.
- Correlate the origin and distribution of sedimentary rocks to plate tectonics: Pleistocene and Holocene Maryland.

Correlate geologic materials, structures, and processes with drainage patterns and topography in Maryland.

- Explain and recognize structural and compositional controls on surface and subsurface drainage.
- Explain and recognize structural and compositional controls on landforms.
- Examine the effects of sea level changes.
- Examine the effects of continental glaciation.

Characterize the water, soil, mineral, rock, and energy resources in Maryland.

- Describe the hydrologic cycle.
- Explain stream and groundwater processes.
- Study groundwater as a resource.
- Study soils as a resource.
- Study minerals as a resource.
- Study rock products as a resource.
- Examine conventional and nontraditional energy resources.

Recognize the geologic hazards (ancient, present, and future) in Maryland

- Explain mass movement processes and associated landscapes.
- Explain expanding soils and soil creep, and associated dangers.
- Explain collapse and subsidence processes and associated landscapes.
- Explain flash flooding and associated dangers.
- Explain coastal hazards and associated disasters.
- Describe ancient and probable future catastrophes in Maryland.
- Assess ways to predict, prevent, control, and/or avoid geologic hazards in Maryland.

PHS 109 - General Oceanography

3 credit hours - Three hours weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Survey the physical, chemical, meteorological, biological, and geological aspects of the oceans. Topics include waves, currents, tides and the chemistry of seawater, ecosystems and life in oceans and estuaries, plate tectonics, and marine sediments. Discuss environmental trends and problems. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as PHS 109H. Credit is not given for both PHS 109 and PHS 109H.* Note: *This course does not satisfy the curricular requirements for a laboratory science course.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Explain how the Earth System, including the atmosphere and oceans, formed.
- Describe the geologic processes, provinces and sediments in the marine environment.
- Discuss the physical and chemical properties of water and seawater.
- Describe atmosphere and ocean interactions for various phenomena.
- Explain ocean motion at different scales.
- Describe the features and processes along ocean coasts.
- Describe how life in the ocean is influenced by physical, chemical, and environmental factors.
- Explain current environmental issues in oceanography using course concepts.

PHS 109H - General Oceanography – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. Survey the physical, chemical, meteorological, biological, and geological aspects of the oceans. Topics include waves, currents, tides and the chemistry of seawater, ecosystems and life in oceans and estuaries, plate tectonics, and marine sediments. Discuss environmental trends and problems. Prereq(s): *Eligibility for honors courses, ENG 101/ENG 101A.* Crosslisted: *Also offered as PHS 109; credit is not given for both PHS 109H and PHS 109.* Note: *This course does not satisfy the curricular requirements for a laboratory science course.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Explain how the Earth System, including the atmosphere and oceans, formed.
- Describe the geologic processes, provinces and sediments in the marine environment.
- Discuss the physical and chemical properties of water and seawater.
- Describe atmosphere and ocean interactions for various phenomena.
- Explain ocean motion at different scales.
- Describe the features and processes along ocean coasts.
- Describe how life in the ocean is influenced by physical, chemical, and environmental factors.
- Explain current environmental issues in oceanography using course concepts.

PHS 111 - History of Science

3 credit hours - Three hours weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Study the development of science and technology, from ancient times to the present, and discuss the effects of scientific developments on political and social affairs. The application of the scientific method in the development of the basic concepts of modern science is stressed, as are the crucial observations and experiments which led to those concepts. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Note: *This course does not satisfy the curricular requirements for a laboratory science course.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Examine the development of science and technology from ancient times to the 21st century.
- Analyze the effects of political and social affairs on the development of science and technology.
- Evaluate the development of the scientific method from ancient times to the 21st century.
- Apply the scientific method in the development of the basic concepts of modern science.
- Discuss the crucial observations and experiments that led to the basic concepts of modern science.

PHS 113 - Physical Geology

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Investigate the Earth's dynamic system of interconnected processes. Discuss the unifying theme of plate tectonics in context with minerals and rocks, volcanoes, geologic time, crustal deformation and mountain building, earthquakes, Earth's interior, evolution of ocean floors and continents, mass movement, streams and floods, groundwater and other surface processes. An optional field trip is available. Lab fee \$30. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate foundational knowledge of the Earth.
2. Understand the Earth as a system.
3. Recognize key surface processes and their connection to geological features.
4. Classify and interpret Earth materials.
5. Discuss Earth's structure.
6. Examine the chemical and mechanical processes related to water.

PHS 119 - Fundamentals of Weather

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Explore basic principles of atmospheric science and investigate types of interesting weather phenomena. Learn about atmospheric warming mechanisms, development of clouds, global and regional wind patterns and all categories of severe weather developments. Analyze and interpret weather maps, satellite images and atmospheric thermodynamic diagrams. Develop informed conclusions about Earth's weather and climate changes. Lab fee \$30. Prereq(s): *Eligibility for MAT 137 or MAT 145 or MAT 151 and ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

- Apply fundamental meteorological variables (such as temperature, humidity, wind, pressure) in the solution of practical laboratory weather and climate related problems;
- Discuss and explain the value and limitations in using scientific data and the scientific method in answering questions in the field of meteorology;
- Clearly identify commonly shown features on surface and upper-air weather maps (such as weather fronts, station model data, isobars, isotherms, and isohights);
- Describe which atmospheric gases and portions of the electromagnetic spectrum affect Earth's weather and climate; The gases include the greenhouse gases, nitrogen gas, and oxygen gas, and the portions of the electromagnetic spectrum include visible, infrared, and ultraviolet radiation.
- Interpret different meteorological products, in practical laboratory activities, such as: surface weather maps, upper-air weather maps, satellite images, precipitation radar images, and thermodynamic diagrams;
- Explain and describe the atmospheric greenhouse effect and how it is different from global warming.

PHS 120 - Global Climate Change

3 credit hours - Three hours lecture weekly; one term

This course meets the Biological and Physical Sciences General Education Requirement. Investigate the causes and consequences of global climate change. Learn the science behind our changing climate and how atmospheric carbon dioxide affects the air, land, and water. Research the effects of climate change on plants, animals, and the oceans. Determine the health, economic, and social impacts of climate change on humans. Interpret climate science data, discuss international climate agreements, and learn about mitigation efforts that help fight climate change. Prereq(s): *Eligibility for ENG 101/ ENG 101A and any general education mathematics*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Describe the science behind multiple facets of Earth's changing climate using an interdisciplinary, systems-based approach
- Analyze historical records, present-day measurements, and climate projection models to compare past, current, and potential future climates

Explain how our changing climate will affect Earth's organisms, habitats, and humans
Discuss political, technological, and personal efforts to reduce carbon emissions locally and globally
Synthesize course concepts to interpret scientific articles, news reports, and government documents, including reports from the Intergovernmental Panel on Climate Change

PHS 200 - Earth and Space Science

4 credit hours - Three hours of lecture and two hours of lab weekly, one term.

This course meets the Biological and Physical Sciences General Education Requirement. Explore the Earth and its dynamic processes in the context of its location in our solar system and universe. Discover how our model of the solar system changed from ancient times to the present. Compare the Earth to other planets, and our solar system to exoplanetary systems. Emphasis is placed on the nature of science and student exploration. Primarily for students who plan to teach preschool through grade eight. Lab fee \$30. Prereq(s): *PHS 100*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Explain how our understanding of our place in the universe has evolved over time.
2. Compare processes that change Earth's crust to those on other planets, within our solar system and beyond.
3. Compare processes of the surface fluid layers of Earth to those on other planets, within our solar system and beyond.
4. Describe the structure, content and evolution of the universe beyond the Solar System, including stars, exoplanetary systems and galaxies, and describe the evidence to support this view.
5. Identify the processes involved in learning associated with the application of the scientific method.

PHS 215 - Introduction to Soil Science

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Explore the nature and properties of soil, including the relationship between soil and the physical, biological, and chemical principles that operate within Earth's system. Discuss the practical applications of soil science: soil management strategies for sustainable agriculture, conservation, land use planning, and remediation of degraded soils. Develop laboratory skills and sampling methods by collecting, characterizing, classifying, and interpreting soil data. Lab fee \$40. Prereq(s): *BIO 103 or PHS 113*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Demonstrate an understanding of soil composition and formation.

Classify soils and apply the Soil Taxonomy System.

Analyze the physical and chemical properties of soil.

Describe the nature and movement of water in soil.

Examine the role of soil in natural ecosystems.

PHS 280-299 - Special Topics in Physical Science

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Provides a means for students to enrich their backgrounds in a particular area of interest with a framework for independent study and research. Topics may not include a laboratory, unless the course carries four credits. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Prereq(s): *Eligibility for ENG 101/ENG 101A and any general education math.*

Physical Therapist Assistant

PTA 101 - Introduction to Physical Therapist Assistant

3 credit hours - 30 hours of lecture and 30 hours of college laboratory; one term.

Introduces the profession of physical therapy including the purpose, history and practice structures. Includes the scope of practice, ethics and roles of the health care provider. Teaches basic patient care procedures and documentation. Lab fee \$100. Prereq(s): *Acceptance into the PTA program*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the values and culture of the physical therapy profession at an introductory level.
2. Describe the role of governing and regulatory bodies on the provision of physical therapy.
3. Describe the role of the physical therapist assistant as a member of the health care team.
4. Identify the laws and regulations, at an introductory level, governing the practice of physical therapy.
5. Recognize and demonstrate effective communication skills used in health care.
6. Recognize the impact of cultural competence on healthcare.
7. Demonstrate competence with safety and safe practice during patient care activities.
8. Demonstrate competence with safe basic transfer and patient handling skills.
9. Demonstrate competence with data collection techniques for vital signs and anthropomorphic measures.
10. Demonstrate competence with basic principles in documentation.
11. Demonstrate competence with basic computer skills.

PTA 102 - Physical Therapist Assistant 1

6 credit hours - 45 hours of lecture and 90 hours of college laboratory; one term.

Introduces theory and skill development in body mechanics, gait training and data collection techniques. Emphasizes competence in postural measurements, transfers, range of motion, manual muscle testing, basic therapeutic exercise, assistive devices and massage. Covers disease processes and specific medical conditions seen in physical therapy. Lab fee \$300 Prereq(s): *PTA 101, BIO 231 or BIO 233, MAT 137, ENG 101 or ENG 101A, and PSY 111*. Coreq(s): *PTA 106*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Identify common medical/surgical interventions for pathology of the musculoskeletal, neuromuscular, cardiovascular/pulmonary, and integumentary systems.
2. Demonstrate safety and competence in implementing basic interventions identified in the PT plan of care.
3. Demonstrate competence with data collection and measurement techniques identified within the PT plan of care.
4. Relate interventions and data collection methods to the PT plan of care which includes patient goals.
5. Demonstrate competence with documentation related to interventions and data collection.
6. Apply and measure effective communication skills relating to patients, caregivers, and members of the health care team.
7. Demonstrate proficiency with computer skills during written and oral presentations.
8. Demonstrate proficiency with using evidence-based research during written and oral presentations.
9. Recognize the impact of cultural competence on healthcare.

PTA 104 - Physical Therapist Assistant 2

6 credit hours - 45 hours of lecture and 90 hours of college laboratory over nine week term.

Introduces theory regarding the concepts of pain, peripheral vascular disease and wound care. Includes theory and skill development in modalities and relaxation techniques with expected competency in specific units. Lab fee \$300. Prereq(s): *PTA 102, PTA 106 and BIO 232 or BIO 234*. Coreq(s): *PTA 105*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate competence and safety in the application of physical agents within the PT plan of care.
2. Recognize the role of the PTA in modifying or deferring interventions due to contraindications or change in patient status.
3. Model effective communication when teaching patients and family/care providers.
4. Apply the essential elements of SOAP documentation for interventions involving physical agents.
5. Recognize the role of the PTA in discharging patients within the PT plan of care: a. identify skilled need
6. Demonstrate competence with data collection relating to the administration of physical agents.
7. Relate pain perception and control theories to the application of physical agents:

- a. effects of cultural and family dynamics background on the perception of pain
- b. use of various pain scales
- 8. Relate tissue response to injury to the application of physical agents:
 - a. pathologies of the peripheral vascular system
 - b. treatment of wounds and selection of wound care dressings
- 9. Demonstrate competence with standard precautions and sterile technique with wound management.
- 10. Model cultural competence during the administration of physical agents.
- 11. Sequence the application of physical agents during treatments within the PT plan of care.

PTA 105 - Clinical Practice 1

2 credit hours - 30 hours of lab, 15 hours of lecture and assessment of PTA skills; one term.

Preparation and performance of a concentrated introductory clinical experience using a variety of learning methods and environments (simulation, hands on, and observation) for supervised application of clinical skills. PTA skills are assessed by clinical and academic faculty. Clinical fee \$25. Prereq(s): *PTA 102, PTA 106 and BIO 232 or BIO 234*. Coreq(s): *PTA 104*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, students should be able to:

- 1. Adhere to ethical and legal standards in the practice of limited physical therapy under the direction and supervision of the physical therapist.
- 2. Demonstrate ongoing competence in the delivery of selected interventions in a safe and effective manner, in real or simulated patient interactions, consistent with the standards of practice of the profession.
- 3. Perform basic data collection and implement selected interventions, using previous learned skills within the program, in real or simulated interactions.
- 4. Demonstrate proficiency with documentation according to standards of practice and level of learning.
- 5. Demonstrate effective communication with a diverse patient population during simulated interactions, including patient education and treatment.
- 6. Identify psychosocial needs of patients and/or families.
- 7. Demonstrate self-awareness of strengths and areas for continuous improvement in simulated patient interactions.

PTA 106 – Kinesiology

6 credit hours - 70 hours of lecture and 45 hours of college laboratory; one term.

Study of biomechanical principles of human movement. Includes structure and functions of joint and muscle groups and characteristics of normal posture and gait. Reviews pathologies basic to each specific joint. Lab fee \$100. Prereq(s): *PTA 101, BIO 231 or BIO 233, MAT 137, ENG 101 or ENG 101A, and PSY 111*. Coreq(s): *PTA 102*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- 1. Demonstrate competence in anatomical planes and axis of motion applied to physiological motions.
- 2. Apply Newton's laws of motion and key biomechanical principles.
- 3. Relate musculoskeletal anatomy to surface anatomy.
- 4. Relate the principles of biomechanics to functional movement and posture.
- 5. Describe the anatomical components of correct posture.
- 6. Relate biomechanical principles to postural changes.
- 7. Demonstrate competence in the components of normal and altered gait patterns.
- 8. Recognize the effects of pathomechanics on functional and physiologic movements.
- 9. Analyze the biomechanical and kinetic components of functional activities.

PTA 150 - Functional Anatomy for the Physical Therapist Assistant

1 credit hour - Two hours lecture and 28 hours of college laboratory; one term.

Bridge content and learning from human anatomy & physiology coursework to kinesiology coursework. Students will participate in both hands-on learning activities and interactive Internet links to promote basic knowledge of bone, muscle, and joint anatomy and physiology. From that knowledge, students will develop an understanding of how anatomy and physiology relate to function. Lab fee \$25. Coreq(s): *PTA 101*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Apply bone, muscle, and joint anatomy and function to common daily activities.

- Describe human movement terminology and types of motion
- Describe joint structures and their purpose
- Demonstrate the action line of muscles of the shoulder, elbow, wrist, hip, knee, and ankle using a tactile aid
- Identify major bones and landmarks of the shoulder, elbow, wrist, hip, knee, and ankle
- Identify the origin, insertion, and action of all muscles that affect the shoulder, elbow, wrist, hip, knee, and ankle joints

Describe the type of muscle function occurring in various basic therapeutic exercises

- Describe the function of skeletal muscle
- Describe concentric, eccentric, and isometric muscle action and the role of gravity
- Describe kinematic chains and their implication towards physical therapy
- Identify muscles of action for joint motion at the shoulder, elbow, wrist, hip, knee, and ankle

PTA 201 - Physical Therapist Assistant 3

4 credit hours - 45 hours of lecture and 30 hours of college laboratory; one term.

Theory of orthopedic conditions and their underlying pathology. Skill development includes integrated rehabilitation techniques of these conditions. Lab fee \$100. Prereq(s): *PTA 104, PTA 105 and PSY 211*. Coreq(s): *PTA 202 and PTA 203*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze the anatomy, etiology, and pathology involved in common orthopedic conditions.
- Demonstrate competence with data collection methods for orthopedic conditions within the PT plan of care.
- Demonstrate safety and competence with interventions for orthopedic conditions within the PT plan of care.
- Model effective communication relating to orthopedic care with patients, caregivers, and members of the health care team.
- Demonstrate competence with documentation relating to essential orthopedic elements
- Identify the significance of common orthopedic special tests performed by the physical therapist.
- Demonstrate proficiency with computer skills during written and oral presentations.
- Demonstrate proficiency with using evidence-based research during written and oral presentations.
- Integrate diversity and cultural awareness when treating patients with orthopedic conditions.
- Prepare for the NPTE by taking a full-length, comprehensive, practice PTA exam which analyzes student performance in all NPTE content areas.

PTA 202 - Physical Therapist Assistant 4

4 credit hours - 45 hours of lecture and 30 hours of college laboratory; one term.

Theory and pathology of conditions which may require long-term rehabilitation techniques. Skill development focuses on techniques which enhance the level of function. Lab fee \$100. Prereq(s): *PTA 104, PTA 105 and PSY 211*. Coreq(s): *PTA 201 and PTA 203*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Analyze the anatomy, etiology, and pathology involved in common pathologies which may require extensive rehabilitation:
- Demonstrate competence with data collection methods for conditions that may require extensive rehabilitation within the PT plan of care
- Demonstrate safety and competence with interventions for conditions that may require extensive rehabilitation within the PT plan of care
- Model effective communication with patients, caregivers, and members of the health care team about extensive rehabilitation conditions and related patient care
- Demonstrate competence with documenting essential elements related to rehabilitation
- Identify the significance of diagnostic and standardized tests performed by the physical therapist and when appropriate, the physical therapist assistant.

Identify the role of the physical therapist assistant in discharge planning and formulate discharge recommendations for the supervising physical therapist
Demonstrate proficiency with computer skills during written and oral presentations
Demonstrate proficiency with using evidence-based research during written and oral presentations
Integrate diversity and cultural awareness when treating complex patients

PTA 203 - Clinical Practice 2

4 credit hours - 192 hours of clinical practice; one term.

A supervised clinical experience in a selected physical therapy setting for application of new and previously learned skills and theoretical integration. Clinical fee \$135. Prereq(s): *PTA 104, PTA 105 and PSY 211*. Coreq(s): *PTA 201 and PTA 202*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students should be able to:

1. Adhere to ethical and legal standards in the practice of limited physical therapy under the direction and supervision of the physical therapist.
2. Demonstrate ongoing competence in the delivery of selected interventions in a safe and effective manner under the direction and supervision of the physical therapist consistent with the standards of practice of the profession.
3. Identify emergency response processes within the clinical site.
4. Apply problem solving skills to perform data collection, conduct tests and measures, and implement selected interventions within the plan of care developed by the physical therapist.
5. Demonstrate competence with documentation according to standards of practice and appropriate to the clinical setting.
6. Establish and maintain effective relationships with patients, clinical instructors, supervising physical therapists, health care team members, patients' family members, and support personnel.
7. Provide psychosocial support to patients and/or families.
8. Incorporate awareness of diversity, equity, inclusion and access when communicating with clinical instructors, physical therapists, patients/clients, family members, caregivers, and health care personnel.
9. Develop organizational skills relating to clinical practice and appropriate to the level of learning.

PTA 204 - Physical Therapist Assistant 5

3 credit hours - 30 hours of lecture and 30 hours of college laboratory; one term.

Theory and pathology of the neurologically involved patient. Special emphasis on skill development in neurodevelopmental techniques. Lab fee \$100. Prereq(s): *PTA 201, PTA 202 and PTA 203*. Coreq(s): *PTA 205 and PTA 206*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Analyze the role of various governing and regulatory bodies for the provision of physical therapy.
2. Critique the essential elements of laws and regulations governing the practice of physical therapy in the State of Maryland.
3. Differentiate the fiscal considerations of physical therapy practice in various practice settings.
4. Discuss the current trends in health care reform, quality improvement, and the effects on the profession of physical therapy.
5. Analyze the importance of the APTA, the APTA Core Documents, professionalism, and advocacy.
6. Appraise current issues in medical ethics, particularly those applicable to physical therapy.
7. Examine strategies to enhance the PT/PTA relationship.
8. Explore career development and lifelong learning opportunities for the PTA.
9. Prepare for the NPTE PTA license exam and licensure in the State of Maryland.

PTA 205 - Current Issues and Trends Affecting the Physical Therapist Assistant

1 credit hour - 15 hours of lecture; one term.

A seminar course which addresses current issues specific to the profession of physical therapy including health care reform, reimbursement, licensure and medical ethics. Prereq(s): *PTA 201, PTA 202 and PTA 203*. Coreq(s): *PTA 204, PTA 206 and PTA 207*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Analyze the role of various governing and regulatory bodies for the provision of physical therapy.

2. Critique the essential elements of laws and regulations governing the practice of physical therapy in the State of Maryland.
3. Differentiate the fiscal considerations of physical therapy practice in various practice settings.
4. Discuss the current trends in health care reform, quality improvement, and the effects on the profession of physical therapy.
5. Analyze the importance of the APTA, the APTA Core Documents, professionalism, and advocacy.
6. Appraise current issues in medical ethics, particularly those applicable to physical therapy.
7. Examine strategies to enhance the PT/PTA relationship.
8. Explore career development and lifelong learning opportunities for the PTA.
9. Prepare for the NPTE PTA license exam and licensure in the State of Maryland.

PTA 206 - Clinical Practice 3

4 credit hours - 144 hours of clinical practice; one term.

A supervised clinical experience in a selected physical therapy setting for application of new and previously learned skills and procedures. Includes implementation of management skills and teaching techniques. Clinical fee \$135. Prereq(s): *PTA 201, PTA 202 and PTA 203*. Coreq(s): *PTA 204 and PTA 205*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Adhere to ethical and legal standards in the practice of limited physical therapy under the direction and supervision of the physical therapist.
2. Demonstrate ongoing competence in the delivery of selected interventions in a safe and effective manner under the direction and supervision of the physical therapist consistent with the standards of practice of the profession.
3. Identify emergency response processes within the clinical site.
4. Apply problem solving skills to perform data collection, conduct tests and measures, and implement selected interventions within the plan of care developed by the physical therapist.
5. Demonstrate competence with documentation according to standards of practice and appropriate to the clinical setting.
6. Establish and maintain effective relationships with patients, clinical instructors, supervising physical therapists, health care team members, patient's family members, and support personnel.
7. Provide psychosocial support to patients and/or families.
8. Incorporate awareness of diversity, equity, inclusion and access when communicating with clinical instructors, physical therapists, patients/clients, family members, caregivers, and health care personnel.
9. Develop organizational skills relating to clinical practice and appropriate to the level of learning.

PTA 207 - Clinical Practice 4

4 credit hours - 280 hours of clinical practice; one term.

A supervised full-time clinical experience in a selected physical therapy setting for application of new and previously learned clinical skills and procedures. Includes implementation of management skills and teaching techniques. Clinical fee \$135. Prereq(s): *PTA 204 and PTA 206*. Coreq(s): *PTA 205*. Note: *A grade of C or better in each physical therapist assistant course is required to progress in PTA 207*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students should be able to:

1. Adhere to ethical and legal standards in the practice of limited physical therapy under the direction and supervision of the physical therapist.
2. Demonstrate ongoing competence in the delivery of selected interventions in a safe and effective manner under the direction and supervision of the physical therapist consistent with the standards of practice of the profession.
3. Identify emergency response processes within the clinical site.
4. Apply problem solving skills to perform data collection, conduct tests and measures, and implement selected interventions within the plan of care developed by the physical therapist.
5. Demonstrate competence with documentation according to standards of practice and appropriate to the clinical setting.
6. Establish and maintain effective relationships with patients, clinical instructors, supervising physical therapists, health care team members, patients' family members, and support personnel.
7. Provide psychosocial support to patients and/or families.
8. Incorporate awareness of diversity, equity, inclusion and access when communicating with clinical instructors, physical therapists, patients/clients, family members, caregivers, and health care personnel.
9. Develop organizational skills relating to clinical practice and appropriate to the level of learning.

PTA 280-299 - Special Topics in Physical Therapist Assistant

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For students seeking readmission to the Physical Therapist Assistant Program or transfer from an accredited program. If a review of course outlines from transfer courses identifies omissions in content, you will be required to take from one to eight credits in this course. Courses may be pursued by practicing physical therapist assistants who wish to update theory. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, check with your transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-94.

Physics

PHY 011 - Introduction to Physics

2 equivalent hours - Four hours of lecture weekly; seven and one-half weeks; or two hours of lecture weekly; one term, 13 weeks.

Designed to present the basic concepts necessary for a student to enroll in a first-year, algebra- or calculus-based college physics course. Topics include problem-solving techniques, application of basic mathematics, dimensional analysis, graphical analysis, vectors and Newton's laws.

Course Outcomes

Apply basic algebra and trigonometry to solving problems.

- Evaluate word problems to identify known and unknown physical quantities.
- Manipulate multivariable equations to solve for an unknown.
- Utilize the quadratic equation to solve a second order polynomial.
- Apply trigonometric functions and the Pythagorem Theorem to solve problems.

Demonstrate ability to correctly perform unit conversions.

- Discusses important characteristics of measurement standards.
- Uses dimensional analysis to determine the units for part of an equation (answer, constant, variable).
- Perform unit conversions

Interpret graphs related to physical phenomena.

- Explain the differences between different types of graphs.
- Identify slopes and intercepts of graphs and explain their significance.

Analyze the vector nature of physical quantities.

- Identify the fundamental properties of all vectors.
- Determines the magnitude and direction of a given vector, given its components (or vice versa).
- Sketches a given vector in an appropriate coordinate system.
- Adds or subtracts two (or more) vectors.

Demonstrate special calculator functions.

- Use the calculator to program mathematical expressions.
- Demonstrate the ability to correctly calculate various mathematical expressions such as the quadratic equation and trigonometric functions numerically.

Applies kinematic equations to one- and two-dimensional motion with constant acceleration.

- Uses the kinematic equations for straight-line motion with constant acceleration to calculate time, position, velocity or acceleration.
- Applies the kinematic equations for free fall situations.
- Draws diagrams representing two-dimensional motion problems, including coordinate system and all known information.
- Uses the kinematic equations to calculate time, position, or velocity in each of the coordinate directions.

Apply Newton's laws to various physical situations.

- Determines the net force acting on an object using the rules for vector addition.
- Draws free-body diagrams to represent forces acting on objects in various situations.
- Solves problems involving straight-line motion without friction.
- Optional: Solves problems involving straight-line motion with friction.
- Calculates the force of gravity on an object on Earth, given its mass.
- Discuss the relationship between Newton's laws of motion and the law of gravitation.

PHY 105 - How Things Work

3 credit hours - Three hours of lecture weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Explore the physical principles involved in everyday objects with a focus on their designs, principles of operation, histories and relationships to one another. Apply concepts to everyday technology involving mechanical and thermal processes, electromagnetism, light and radiation, and both atomic and nuclear physics. Prereq(s): *Eligibility for ENG 101/ENG 101A and any general education math.* Note: *This course does not satisfy curricular requirements for a laboratory science course.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain what is meant by the 'universal' nature of fundamental physics principles.
- Explain, using physics principles, various scenarios and the operation of everyday objects
- Explain the advantages and disadvantages of two (or more) designs for a device using physics principles.
- Interpret scientific data presented in graphical form.
- Give examples of how technology and/or science impacts people individually, in communities, and/or globally.

PHY 111 - Fundamentals of Physics 1

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Discover the fundamental concepts and methods of physics. Study the classical principles and their application to algebra-based mathematical analysis of physical problems. Analyze topics including mechanics (kinematics, laws of motion, force, momentum, and energy), fluids, and heat. Meets the requirements of career programs and transfer programs in liberal arts, secondary education and health-related fields that require algebra-based general physics. Lab fee \$10. Prereq(s): *MAT 137 or MAT 145 with a grade of C or better or eligibility for MAT 151 and eligibility for ENG 101/ENG 101A.* Note: *Credit is not given for both PHY 111 and PHY 211.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply the appropriate physical principles, while considering their limitations, to a given scenario.
- Translate a given physical situation or written problem into an organized solution map, including a diagram and a physics-based mathematical description.
- Apply physical models based on mathematical techniques (including algebra and trigonometry) to explain and/or predict fundamental physical phenomena.
- Use experimental apparatus and acquire data to test a scientific hypothesis.
- Use appropriate mathematical methods, consistent with physics principles, to examine laboratory data in order to support or refute a scientific hypothesis.
- Communicate appropriate experimental conclusions based on underlying physics principles as well as mathematical and graphical analysis.

PHY 112 - Fundamentals of Physics 2

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Discover the fundamental concepts and methods of physics, as a continuation of PHY 111. Study physical principles and their application to algebra and trigonometry based mathematical analysis of physical problems. Analyze topics including electricity and magnetism, electric circuits, optics, quantum mechanics, and special relativity. Meets the requirements of career programs and transfer programs in liberal arts, secondary education, and health-related fields that require algebra-based general physics. Lab fee \$10. Prereq(s): *PHY 111 and MAT 137 or MAT 145 with a grade of C or better, or eligibility for MAT 151.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply the appropriate physical principles, as well as their limitations, to a given physics scenario.

Translate a given physical situation or written problem into an organized solution map, including a diagram and a physics-based mathematical description.

Apply physical models based on mathematical techniques (including algebra and trigonometry) to explain and/or predict fundamental physical phenomena.

Use experimental apparatus and acquire data to test a scientific hypothesis.

Use appropriate mathematical methods, consistent with physics principles, to examine laboratory data in order to support or refute a scientific hypothesis.

Communicate appropriate experimental conclusions based on underlying physics principles as well as mathematical and graphical analysis.

PHY 120 - Sound and Light - An Interdisciplinary Approach

3 credit hours - Three hours of lecture weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Discover the fundamental concepts and methods of the physics of sound and light. Study physical concepts and principles of sound and light from a conceptual perspective, and apply these concepts to the analysis of various physical problems and natural phenomenon. Integrate scientific, technological, and artistic perspectives to understand the sources, behaviors, and control of sound and light. Analyze topics including waves and oscillations, light and optics, and sound and acoustics. Meets the requirements of career programs and transfer programs in liberal arts, interior design, fine arts, and programs requiring a non-lab science. Prereq(s): *Eligibility for ENG 101/ENG 101A and any general education math.* Note: *This course does not satisfy curricular requirements for a laboratory science course.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain the physical concepts of waves and oscillations and their specific applications to sound and light.
- Discuss how physics of light and optics concepts apply to science, technology, the arts, and the natural world.
- Discuss how physics of sound and acoustics concepts apply to science, technology, the arts, and the natural world.

PHY 211 - General Physics 1

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Discover the fundamental concepts and methods of physics as a basis for further study in science and engineering. Study the classical principles and their application to calculus-based mathematical analysis of physical problems. Analyze topics including mechanics (kinematics, laws of motion, force, momentum, and energy) and basic fluid theory. Lab fee \$25. Prereq(s): *Eligibility for ENG 101/ENG 101A; completion of MAT 191.* Crosslisted: *Also offered as PHY 211H; credit is not given for both PHY 211 and PHY 211H.* Note: *Credit is given for only one of PHY 211, PHY 211H, or PHY 111.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply the appropriate physical principles, while considering their limitations, to a given scenario.
- Translate a given physical situation or written problem into an organized solution map, including a diagram and a physics-based mathematical description.
- Apply physical models based on advanced mathematical techniques (including, but not limited to, integral and differential calculus) to explain and/or predict physical phenomena.
- Set up experimental apparatus and acquire data to test a scientific hypothesis.
- Perform experimental analysis including: Analyze data using spreadsheets, linearize data, correctly interpret trend-lines/curves, and perform error analysis/propagation.
- Communicate appropriate experimental conclusions based on underlying physics principles and mathematical, graphical, and statistical analysis tools.

PHY 211H - General Physics 1 – Honors

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This is an honors course. This course meets the Biological and Physical Sciences General Education Requirement. Discover the fundamental concepts and methods of physics as a basis for further study in science and engineering. Study the classical principles and

their application to calculus-based mathematical analysis of physical problems. Analyze topics including mechanics (kinematics, laws of motion, force, momentum, and energy) and basic fluid theory. Lab fee \$25. Prereq(s): *Eligibility for honors courses; eligibility for ENG 101/ENG 101A; completion of MAT 191*. Crosslisted: *Also offered as PHY 211; credit is not given for both PHY 211H and PHY 211*. Note: *Credit is given for only one of PHY 211, PHY 211H, or PHY 111*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply the appropriate physical principles, while considering their limitations, to a given scenario.
- Translate a given physical situation or written problem into an organized solution map, including a diagram and a physics-based mathematical description.
- Apply physical models based on advanced mathematical techniques (including, but not limited to, integral and differential calculus) to explain and/or predict physical phenomena.
- Set up experimental apparatus and acquire data to test a scientific hypothesis.
- Perform experimental analysis including: Analyze data using spreadsheets, linearize data, correctly interpret trend-lines/curves, and perform error analysis/propagation.
- Communicate appropriate experimental conclusions based on underlying physics principles and mathematical, graphical, and statistical analysis tools.

PHY 212 - General Physics 2

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This course meets the Biological and Physical Sciences General Education Requirement. Examine the topics of thermodynamics, electrostatics, and direct current circuit theory while expanding on the theory from PHY 211 demonstrating these topics application to the calculus-based mathematical analysis of physical problems. Lab fee \$10. Prereq(s): *PHY 211 and MAT 192*. Crosslisted: *Also offered as PHY 212H; credit is not given for both PHY 212 and PHY 212H*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply the appropriate physical principles, as well as their limitations, to a given scenario.
- Translate a given physical situation or written problem into an organized solution map, including a diagram and a physics-based mathematical description.
- Apply physical models based on advanced mathematical techniques (including, but not limited to, integral and differential calculus) to explain and/or predict physical phenomena.
- Set up experimental apparatus and acquire data to test a scientific hypothesis.
- Use appropriate mathematical methods, consistent with physics principles, to examine laboratory data in order to support or refute a scientific hypothesis.
- Communicate appropriate experimental conclusions based on underlying physics principles and mathematical, graphical, and statistical analysis tools.

PHY 212H - General Physics 2 – Honors

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

This is an honors course. This course meets the Biological and Physical Sciences General Education Requirement. Examine the topics of thermodynamics, electrostatics, and direct current circuit theory while expanding on the theory from PHY 211 demonstrating these topics application to the calculus-based mathematical analysis of physical problems. Lab fee \$10. Prereq(s): *Eligibility for Honors courses and PHY 211H and MAT 192H*. Crosslisted: *Also offered as PHY 212; credit is not given for both PHY 212H and PHY 212*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply the appropriate physical principles, as well as their limitations, to a given scenario.
- Translate a given physical situation or written problem into an organized solution map, including a diagram and a physics-based mathematical description.

Apply physical models based on advanced mathematical techniques (including, but not limited to, integral and differential calculus) to explain and/or predict physical phenomena.
 Set up experimental apparatus and acquire data to test a scientific hypothesis.
 Use appropriate mathematical methods, consistent with physics principles, to examine laboratory data in order to support or refute a scientific hypothesis.
 Communicate appropriate experimental conclusions based on underlying physics principles and mathematical, graphical, and statistical analysis tools.

PHY 213 - General Physics 3

4 credit hours - Three hours of lecture and three hours of laboratory weekly; one term.

Continue the study of physics and its application to the calculus-based mathematical analysis of physical problems. Analyze topics including magnetism, electrodynamics and Maxwell's equations, alternating current circuit theory and applications, optics, quantum mechanics, and special relativity. Lab fee \$10. Prereq(s): *PHY 212 and either MAT 201 or MAT 212.* Note: *Typically offered at MC; fall and spring terms.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Apply the appropriate physical principles, while considering their limitations, to a given scenario.
 Translate a given physical situation or written problem into an organized solution map, including a diagram and a physics-based mathematical description.
 Apply physical models based on advanced mathematical techniques (including, but not limited to, integral and differential calculus) to explain and/or predict physical phenomena.
 Set up experimental apparatus and acquire data to test a scientific hypothesis.
 Use appropriate mathematical methods, consistent with physics principles, to examine laboratory data in order to support or refute a scientific hypothesis.
 Communicate appropriate experimental conclusions based on underlying physics principles and mathematical, graphical, and statistical analysis tools.

PHY 280-299 - Special Topics in Physics

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Intended to provide a means for students to enrich their backgrounds in a particular area of interest. Provides a framework for independent study and research. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-40. Prereq(s): *28 or more credit hours and permission of department chair.*

Political Science

PLS 111 - American Government

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. An introduction to American politics. Focuses upon such topics as ideology, public opinion, political behavior and voting dynamics, political parties, the presidency, Congress, Supreme Court, foreign policy and national defense. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Describe factual elements of the U.S. political system
 Effectively analyze the U.S. political system
 Interpret political information
 Discuss political issues, role of social stratification and cultural diversity on American politics and the role of individual citizens in the U.S. political system
 Describe linkages between various domains such as arts, science and technology as these relate to public policy
 Compare the British political system with the U.S. political system
 Analyze American foreign policy

PLS 113 - State and Local Government

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. An intensive study of operations and roles of state and local governments in the U.S. federal system. The interrelationship between national and state governments is studied from a historical as well as from a contemporary perspective. Particular emphasis placed on problems of Maryland state and local governments. A brief review of recent studies in this field is conducted. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Analyze key aspects of state and local government in theory and practice through lectures and readings.
- Apply critical thinking skills to government studies through various written assignments.
- Understand core issues such as federalism, the impact of governors and state legislatures on policies.
- Examine the role of parties, elections, and political participation in state and local government.
- Explore the functions of courts, law enforcement, and corrections at the state level.

PLS 115 - Introduction to Political Science

3 credit hours - Three hours lecture weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Examine key concepts and methodologies of political science, investigate the origins of our political values, and explore various fields within the discipline, including American politics, comparative politics, international relations, and political philosophy. Analyze political ideas, theories, ideologies, systems, and policies in order to investigate political problems on a national and global level. Note: *This course should be taken by students interested in majoring in political science in anticipation of other courses such as PLS 111 (American Government), PLS 113 (State and Local Government), or PLS 200 (International Relations). However, it offers a broad introduction to national and international political arrangements, policy orientations, and social outcomes that would benefit any student.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the scope of and topics considered within the discipline of political science.
2. Examine different theories, approaches, and methodologies for evaluating evidence.
3. Explain the role of political philosophy and ideology in shaping the evaluation of forms of political regimes, economic systems, and the value of political participation.
4. Identify the ways in which individuals can participate in politics under different conditions and regime types.
5. Distinguish among the roles, responsibilities, and structures of the three government branches in different regime types.
6. Identify key concepts in the study of international relations, including war, terrorism, globalization, realism, and idealism.

PLS 121 - Introductory Political Theory

3 credit hours - Three hours weekly; one term.

A survey that deals with political ideas and political problems such as political domination by ruling classes, the right to revolt, relation of the individual to state, and totalitarian and authoritarian systems. Emphasis on the writings of such political thinkers as Plato, Aquinas, Machiavelli, Hobbes, Marx, de Tocqueville, Nietzsche and Gandhi. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Contrast early political theorists (Plato, Socrates) and understand religious political thought (St. Augustine, St. Thomas Aquinas).
- Examine key ideas in Machiavelli's work.
- Compare and contrast social contract theorists (Hobbes, Locke, Rousseau) and democracy theorists (de Tocqueville, John Stuart Mill).
- Differentiate between socialist thinkers (Marx) and free-market proponents (Adam Smith), while identifying key ideas from 20th-century "welfare state" thinkers (Keynes, Myrdal).

PLS 122 - American Political Thought

3 credit hours - Three hours weekly; one term.

Survey of development of American political thought from the Puritan era to the present. Trends in political theory are related to social, economic and political changes and conditions. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

PLS 125 - Political Issues and Conflicts in Contemporary America

3 credit hours - Three hours weekly; one term.

Focus on contemporary economic, political and social issues that are the subjects of conflict in contemporary American politics. Examine the impact of these issues on American governance, formation and execution of public policy and opinion. Topics include multiculturalism, race relations, abortion and gender/sexual politics. Prereq(s): *PLS 111 or permission of department chair.*

PLS 131 - Comparative Government and Politics

3 credit hours - Three hours weekly; one term.

Introduction to theories of comparative politics and to data used in comparing political systems. Major attention is given to the systems of Great Britain, France, Germany and Japan. Focuses on political culture and political crises; political parties, including communist, anarchist and fascist; and contemporary political institutions and policymaking. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

PLS 151 - Political Behavior and Analysis

3 credit hours - Three hours weekly; one term.

A dual focus on conceptual approaches and methodologies of behavioral political studies with principal emphasis on theories derived from small-group, personality, role, power and socialization analysis. Special attention given to contemporary voting behavior, leadership character, ideology and political violence. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

PLS 155 - Ethnic Conflict

3 credit hours - Three hours weekly; one term.

Gain an overview of historical, theoretical and empirical analysis of ethnic conflict around the world. Examine representative theories and evidence on the causes, dynamics and outcomes of ethno-political conflicts and their impact on international politics. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

PLS 200 - International Relations

3 credit hours - Three hours weekly; one term.

This course meets the Social & Behavioral Sciences General Education Requirement. Examines fundamental concepts of international relations: nation-state, sovereignty, balance of power, diplomacy, foreign policy, war and peace, disarmament, international law and international organizations. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

PLS 275 - Legislative Internship: Orientation

3 credit hours -

An orientation course to prepare those planning to participate in the legislative internship program (PLS 276) during spring term. Not a prerequisite for PLS 276, but recommended.

PLS 276 - Legislative Internship: Practicum

3 credit hours -

Selected students are assigned to members of the Maryland General Assembly, committees, lobbyists or associations during the legislative session (January-April). Furthermore, students performing internships in any political legislature (local, state or federal) may earn academic credit for their service. Students perform duties as assigned including drafting of legislation, constituent service and research. Before the beginning of the proposed internship, students must contact the political science department chair. It is recommended that interns take PLS 275 during the second eight weeks of classes of the fall term before they enroll in PLS 276. Prereq(s): *Eligibility for ENG 101/ENG 101A and permission of the department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

PLS 280-299 - Special Topics in Political Science

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Focus on topics relevant to political science. Courses offered in response to emerging critical issues, students' interest or the disciplinary strength of faculty members. A maximum of eight credit hours earned from special topics courses may be used to satisfy

degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Practical Nursing

LPN 180 - Fundamentals of Practical Nursing

8 credit hours - 75 hours of lecture and 90 hours of laboratory/clinical per term; one term.

Learn the role of the practical nurse as provider, manager and member within the discipline of nursing in a team relationship. Focus on the concepts, principles and skills used in assessing and providing basic care for patients. Opportunities to practice skills and demonstrate competencies are provided. Lab fee \$400. Clinical fee \$300. Prereq(s): *BIO 231, BIO 232 or equivalent, PSY 111 and Math General Education with grades of C or better. Acceptance into the Practical Nursing (LPN) program.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Demonstrates accountability for maintaining the standards of practice to include holistic care across the settings, legal / ethical behaviors and life-long learning in concert with the Maryland Nurse Practice Act for the Licensed Practical Nurse.

Discuss the roles of the practical nurse: Provider of care, and member within the health care team.

Within the health care team, develop a written nursing care plan including appropriate data collection and interventions and evaluation criteria.

With guidance is able to satisfactorily demonstrate relevant course competencies in the clinical setting.

Utilizes appropriate and therapeutic communication to promote positive patient outcomes.

Develops a care plan for selected patients utilizing principles of therapeutic communication.

Utilizes appropriate nursing diagnosis, developed by the Registered Nurse (RN), related to therapeutic communication skills when interacting with patient to reach desired health care goals.

Assesses holistically and systematically, the health status of individuals, families and communities to determine health care needs.

Identify indication of optimal functioning as well as nursing interventions with rationales in the following systems: sensorimotor, gas transport, nutrition / regulatory, elimination, protective, psychosocial and perceptual / behavioral.

Assesses individualized health status of selected patients.

Utilizes appropriate nursing diagnosis developed by the Registered Nurse (RN) related to assisting selected patients in reaching desired health care goals.

Utilizes critical thinking skills within the framework of three (3) steps of the nursing process to ensure the delivery of safe, accurate care.

Solves problems using basic research, analysis and interpretation.

Utilize critical thinking skills in the formulation of selected patient's care plan.

Demonstrate critical thinking and problem solving skills in caring for patients in the clinical setting.

Provides nursing care based on the understanding of the sciences, humanities, nursing theory, research and personal experiences that is global, culturally relevant and maintains patient's rights and dignity.

Define the nursing process.

Identify indication of optimal functioning as well as nursing interventions with rationale for: sensorimotor, gas transport, nutrition / regulatory, elimination, protective, psychosocial and perceptual / behavioral systems.

Apply the nursing process in development of concept maps for selected patients.

Demonstrate ethical and cultural awareness.

Demonstrate an understanding of cultural diversity.

Respects the dignity and rights of others.

Identifies learning needs of patients and within the health care team, and implements relevant teaching to assist the patient in achieving their health goals.

Identify health care learning needs for patient population.

Assist patients in achieving health goals.

Utilizes appropriate teaching / learning principles to aid patient in reaching desired health care goals.

Collaborates with patients, families and other members of the health care team to ensure holistic, individualized care with appropriate allocation of human and material resources across the health care continuum.

Demonstrate an understanding of roles of members of the health team.

Function as a member of the health team.

Coordinates through direct intervention and delegation of care, the safe and accurate care of multiple patients in sub acute health care settings.

Integrate principles of drug administration, drug classifications, indications and adverse effect to rationale for administration of specific drugs.

Within the health care team, develops a care plan for selected patients

Discuss the importance of cultural diversity as it influences approaches to health assessment and health care outcomes.

With guidance is satisfactorily able to care for patients in clinical settings.

LPN 193 - Adult and Child Health Concepts in Practical Nursing

10 credit hours - 90 hours of lecture, 42 hours of directed lab and 138 hours of clinical per term; one term.

Learn essential principles, concepts and skills necessary for the care of adults and children with acute alterations in body systems.

Apply theoretical concepts and perform nursing skills specific to adult and child clients in acute care settings. Lab fee \$300. Clinical fee \$275. Prereq(s): LPN 180. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Demonstrates accountability for maintaining standards of LPN practice to include holistic care across health care settings, specific to those working with the specific populations of those adults and children with acute illness. To include legal/ethical behaviors and life-long learning in concert with the Maryland Practice Act for the Licensed Practical Nurse.

Discuss the roles of the practical nurse: Provider of care, and member within the health care team.

In conjunction with the registered nurse, and as a member of the health care team, contribute to the development of the care plan, including nursing priorities with supporting rationale for selected patients.

With guidance is able to satisfactorily demonstrate relevant course competencies in the clinical setting.

Utilizes appropriate and therapeutic communication to promote positive client outcomes.

In conjunction with the registered nurse and as a member of the health care team, identify nursing priorities for selected patients utilizing principles of therapeutic communication.

Utilizes appropriate nursing diagnosis, developed by the Registered Nurse (RN), related to therapeutic communication skills when interacting with patient to reach desired health care goals.

Assesses holistically and systematically, the health status of adults, children, families and communities to determine health care needs.

Identify indication of optimal functioning as well as nursing interventions with rationales in the following systems: sensorimotor, gas transport, nutrition/regulatory, elimination, protective, psychosocial and perceptual/behavioral that support optimal functioning.

Collects data for assessment of individualized health status of selected patients.

Utilizes appropriate nursing diagnosis developed by the RN related to assisting selected patients in reaching desired health care goals.

Utilizes critical thinking skills within the framework of the LPN nursing process to ensure the delivery of safe, accurate care.

Solves problems using basic research, analysis and interpretation.

Utilize critical thinking skills in the formulation of selected patient's care plan.

Demonstrates critical thinking and problem solving skills in caring for patients in the clinical setting.

Provides evidenced-based nursing care based on the understanding of the sciences, humanities, nursing theory, research and personal experiences that is global, culturally relevant and maintains patient's rights and dignity.

Define the nursing process.

Identify indication of optimal functioning as well as nursing interventions with rationale for: sensorimotor, gas transport, nutrition/regulatory, elimination, protective, psychosocial and perceptual/behavioral systems.

As a member of the health care team, contribute to the nursing process in development of plans of care for selected patients.

Demonstrate ethical and cultural awareness.

Demonstrate an understanding of cultural diversity.

Respects the dignity and rights of others.

As a member of the health care team, identifies learning needs of clients, contributes to the development of client care goals, and implements relevant teaching to assist the client and their family in achieving their health goals.

Collect data concerning health care learning needs for the patient population.

Assist patients in achieving health goals.

Utilizes appropriate teaching/learning principles to aid patient in reaching desired health care goals.

Collaborates with clients, families and other members of the health care team to ensure holistic, individualized care with appropriate allocation of human and material resources across the health care continuum.

Demonstrate an understanding of roles of members of the health care team.

Function as a member of the health care team.

Coordinates through direct intervention and delegation of care, the safe and accurate care of multiple clients in diverse health care settings.

Integrate principles of drug administration, drug classifications, indications and adverse effects to rationale for administration of specific drugs.

Within the health care team, and in collaboration with the RN, identify nursing priorities for selected patients.

Discuss the importance of cultural diversity as it influences approaches to health assessment and health care outcomes.

With guidance, provide satisfactory care for patients in clinical settings.

LPN 194 - Women, Newborns, Mental Health and Integration of Concepts in Practical Nursing

9 credit hours - 90 hours of lecture, 30 hours of directed lab and 105 hours of clinical per term; one term.

Learn essential principles, concepts and skills for providing care for the childbearing family, the mentally ill, and adults with emergent needs. Explore the roles of leadership and delegation. Integrate the role of the Practical Nurse through opportunities to provide client care in acute, community, and/or long-term settings. Lab fee \$350. Clinical fee \$275. Prereq(s): LPN 193. Location(s) Typically

Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Demonstrates accountability for maintaining the standards of practice to include holistic care across the settings specific to childbearing families, individuals who require interventions for mental health concerns and those in sub-acute care. Includes the management and leadership experiences as well as life-long learning in concert with the Maryland Nurse Practice Act for the Licensed Practical Nurse.

Discuss the roles of the practical nurse: Provider of care and member within the health care team.

Within the health care team, develop a written nursing care plan including appropriate and relevant nursing diagnosis with supporting rationale for selected patients within the scope of the Standards of PN practice and under the supervision of the RN.

With guidance, is able to satisfactorily demonstrate relevant course competencies in the clinical setting.

Utilizes appropriate and therapeutic communication to promote positive patient outcomes.

As a member of the health care team, develops a care plan for selected patients utilizing principles of therapeutic communication within the scope of the Standards of PN practice and under the supervision of the RN.

Utilizes appropriate nursing diagnosis developed by the RN related to therapeutic communication skills when interacting with a patient to achieve desired health care goals.

Assess holistically and systematically, the health status of individuals, families and communities to determine health care needs.

Identify indication of optimal functioning as well as nursing interventions with rationales in the following systems: sensorimotor, gas transport, nutrition/regulatory, elimination, protective, psychosocial and perceptual/behavioral.

Assesses individualized health status of selected patients.

Utilizes appropriate nursing diagnosis developed by the RN related to assisting selected patients in reaching the desired health care goals.

Utilizes critical thinking skills within the framework of a three step nursing process to ensure the delivery of safe, accurate care, while recognizing the Scope of Nursing Practice appropriate for the PN and safely practicing within licensed guidelines.

Solves problems using basic research, analysis and interpretation.

Utilize critical thinking skills in the formulation of selected patient's care plan.

Demonstrate critical thinking and problem solving skills in caring for patients in the clinical setting.

Provides nursing care based on the understanding of the biological and behavioral sciences, nursing theory, evidenced based practices, National Safety Standards and personal experiences that is global, culturally relevant and maintains patient's rights and dignity.

Define the nursing process.

Identify indication of optimal functioning as well as nursing interventions with rationale for: sensorimotor, gas transport, nutrition/regulatory, elimination, protective, psychosocial and perceptual/behavioral systems.

Apply the nursing process in development of plans of care for selected patients.

Demonstrate ethical and cultural awareness.

Demonstrate an understanding of cultural diversity.

Respect the dignity and rights of others.

Within the health care team, identifies learning needs of patients developing plans and implementing relevant teaching to assist the patient in achieving their health goals.

Identify health care learning needs for the patient populations.

Assist patients in achieving health goals.

Utilizes appropriate teaching/learning principles to aid the patient in reaching desired health care goals.

Collaborates with patients, families and other members of the health care team to ensure holistic, individualized care with appropriate allocation of human and material resources across the health care continuum.

Demonstrate an understanding of roles of members of the health team.

Function as a member of the health care team.

Coordinates through direct intervention and delegation of care, the safe and accurate care of multiple patients in diverse health care settings.

Integrate principles of drug administration, drug classifications, indications and adverse effect to rationale for administration of specific drugs.

Within the health care team, develops a care plan for selected patients.

Discuss the importance of cultural diversity as it influences approaches to health assessment and health care outcomes.

With guidance, is satisfactorily able to care for patients in a variety of clinical settings.

Psychology

PSY 100 - Career Development and Assessment

3 credit hours - Three hours weekly; one term.

Apply psychological content and skills while using a systematic and strategic approach toward professional and personal development. Topics include understanding psychological theories of career development, exploring social cognitive factors influencing career choice and satisfaction, identifying and developing non-cognitive factors influencing academic and vocational success, and recognizing the necessary skills to engage in successful life and career planning. Note: *This course is intended to utilize psychological concepts and knowledge in the application of career development. It is appropriate for psychology majors and non-psychology majors. Enrollment in PSY 100 prior to, or concurrently with, PSY 111 is recommended.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Explain the major theories of career development and contemporary concerns impacting career choice.

Describe the impact of noncognitive factors of achievement on goal attainment.

Describe the association between income, effective money management and life satisfaction.

Describe the importance of working effectively within diverse environments and with diverse populations.

Describe how psychology's content applies to business, health care, educational, and other workplace settings.

Apply psychological knowledge and skills to career development to include developing effective self-marketing, communication, and networking strategies.

Identify sources of occupational information and literature.

Develop a plan outlining meaningful professional direction for life after graduation.

PSY 102 - Psychology of African Americans

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Explore basic theoretical and philosophical perspectives in the field of African-American psychology. Review history of African Americans and impact of historical events on the psychological well-being of

African Americans. Discuss racism and discrimination and its impact on the African-American family, the education and achievement of African Americans, African-American identity development and other pertinent issues relevant to the lifestyles of African Americans. Crosslisted: *Also offered as AFA 102; credit is not given for both PSY 102 and AFA 102.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify theories and perspectives in the field of African American psychology.
- Identify historical events that impacted the psychological well-being of African Americans.
- Discuss the impacts of racism and oppression on the lives of African Americans.
- Discuss how different relationships influence the development of African Americans.
- Explain the process of African American identity development.
- Identify issues and achievements in education among African Americans.
- Describe cultural influences in the lifestyles of African Americans.
- Describe factors relevant to understanding health among African Americans.
- Describe factors that raise consciousness and strengthen African Americans psychologically, spiritually, and physically.

PSY 111 - Introduction to Psychology

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Explore the science of psychology and how psychological research applies to aspects of everyday life. Topics include biological basis of behavior, cognition, memory, development, learning, mental health, and our interactions with others. Crosslisted: *Also offered as PSY 111H; credit is not given for both PSY 111 and PSY 111H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain basic psychological concepts.
- Apply psychological principals to personal and professional growth, and other aspects of everyday life.
- Evaluate psychological research, draw logical and objective conclusions from it, and assess whether research was conducted ethically.
- Investigate changes in psychological research, recognizing that psychological science relies on empirical evidence adapting as new data develop.
- Use psychological research to support or discredit statements, opinions, or beliefs related to psychological themes.
- Recognize that our diverse psychological, biological, social, and cultural factors influence mental processes and behavior, and that we filter information through an imperfect personal lens.

PSY 111H - Introduction to Psychology – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Social & Behavioral Sciences General Education Requirement. Explore the science of psychology and how psychological research applies to aspects of everyday life. Topics include biological basis of behavior, cognition, memory, development, learning, mental health, and our interactions with others. Prereq(s): *Eligibility for Honors courses.* Crosslisted: *Also offered as PSY 111; credit is not given for both PSY 111 and PSY 111H.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain basic psychological concepts.
- Apply psychological principals to personal and professional growth, and other aspects of everyday life.
- Evaluate psychological research, draw logical and objective conclusions from it, and assess whether research was conducted ethically.
- Investigate changes in psychological research, recognizing that psychological science relies on empirical evidence adapting as new data develop.

Use psychological research to support or discredit statements, opinions, or beliefs related to psychological themes.
Recognize that our diverse psychological, biological, social, and cultural factors influence mental processes and behavior, and that we filter information through an imperfect personal lens.

PSY 120 - Psychology of Parenthood

3 credit hours - Three hours weekly; one term.

Presents an overview of the Psychology of Parenthood, focusing on the parent-child relationship and the crucial role that parents play in the development of children. Included are the various types of parenting in contemporary America, family systems research, child behavior management and interpersonal communication with the family. Current parenting issues such as nutrition, child care, sex education, substance abuse and childhood stress are covered.

Course Outcomes

Upon successful completion of this course, the student will be able to:

Survey current research about the parent-child relationship

- Access current parent-child and family systems research articles
- Research information on styles of parenting
- Compile information on current issues in childrearing

Discuss effective styles of dealing with children at each stage in the life cycle

- Describe stage, milestone and critical limits in human development
- Discuss parent-child communications
- Explain familial and parental influences upon child development

Describe operant principles and their application to the management of child behavior

- Explain child behavior management
- Describe operant principles
- Apply operant principles to the management of child behavior

Review critical issues facing children and their parents in American society

- Identify critical issues in today's society
- Review the impact of these issues on American children and their parents

PSY 205 - Child Psychology

3 credit hours - Three hours weekly; one term.

Learn about cognitive, physical, social and emotional development from infancy through pre-adolescence. Study theories of child development and research methods used to study it. Learn about conception and the prenatal period and its influence on later development. Prereq(s): *PSY 111 or PSY 111H; or permission of department chair.* Note: *Also offered as PSY 205H; credit is not given for both PSY 205 and PSY 205H.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain the research methods used by behavioral scientists to study human development.
- Identify the principal differences among current theories of human growth and development.
- Identify basic genetic concepts, and the mechanisms of gene-environment interactions.
- Identify processes and milestones related to conception, prenatal development, and delivery.
- Identify the major developmental milestones at each stage of life from infancy through the end of childhood.
- Explain the ways in which different domains of development - biological, sociocultural, emotional and cognitive - influence each other throughout infancy and childhood.

PSY 205H - Child Psychology – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. Learn about cognitive, physical, social and emotional development from infancy through pre-adolescence. Study theories of child development and research methods used to study it. Learn about conception and the prenatal period and its influence on later development. Prereq(s): *PSY 111 or PSY 111H or permission of department chair and eligibility for Honors courses.* Note: *Also offered as PSY 205; credit is not given for both PSY 205H and PSY 205.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain the research methods used by behavioral scientists to study human development.
- Identify the principal differences among current theories of human growth and development.
- Identify basic genetic concepts, and the mechanisms of gene-environment interactions.
- Identify processes and milestones related to conception, prenatal development, and delivery.
- Identify the major developmental milestones at each stage of life from infancy through the end of childhood.
- Explain the ways in which different domains of development - biological, sociocultural, emotional and cognitive - influence each other throughout infancy and childhood.

PSY 208 - Adolescent Psychology

3 credit hours - Three hours weekly; one term.

Focuses on the scientific study of the biological, psychological, cognitive, emotional, personality and social changes that occur during adolescence and includes the effects of heredity and culture, major theories, moral development, gender role issues, sexuality and family relationship issues. Prereq(s): *PSY 111 or permission of department chair*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate knowledge of how scientific methodology is applied to the study of adolescent psychology
- Critically analyze major theories which attempt to explain adolescent behavior
- Analyze and evaluate current findings and latest research related to adolescent psychology
- Communicate an understanding of research techniques used to address the validity of theoretical approaches to adolescence.
- Communicate the understanding of how psychology principles can be applied to practical issues and problems faced during adolescence.
- Demonstrate an understanding of culture, social factors, family relationship issues, gender role issues and sexuality on adolescent development.
- Identify the major changes that occur as a result of cognitive development, personality development, moral development, and social/emotional development during adolescence.
- Identify the effects of and changes caused by heredity, biological, and physical development during adolescence.
- Demonstrate an understanding of the major health and stress related issues facing adolescents and the adaptive and maladaptive coping methods utilized.
- Identify the facets of identity development that occur during adolescence that impact school achievement future career development.

PSY 211 - Developmental Psychology

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Examine current research and principles and theories of human growth and development from conception through the end of life. Provides an overview of biological, sociocultural, emotional, and cognitive development, and the interactions among those domains. Prereq(s): *Eligibility for Honors courses and PSY 111 or PSY 111H or permission of department chair*. Crosslisted: *Also offered as PSY 211H; credit is not given for both PSY 211 and PSY 211H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Explain the research methods used by behavioral scientists to study human development.
2. Identify the principal differences among current theories of human growth and development.
3. Identify basic genetic concepts and the mechanisms of gene-environment interactions.
4. Identify processes and milestones related to conception, prenatal development and delivery.
5. Analyze the influence of early life experiences upon the physical, cognitive and psychosocial functioning of humans.
6. Identify the major developmental milestones at each stage in the life cycle.
7. Explain the ways in which different domains of development - biological, sociocultural, emotional, and cognitive - influence each

other throughout the lifespan.

8. Summarize major findings in current research about the aging process.

9. Identify personal and cultural influences on dying, mourning and grieving.

PSY 211H - Developmental Psychology – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Social & Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Examine current research and principles and theories of human growth and development from conception through the end of life. Provides an overview of biological, sociocultural, emotional, and cognitive development, and the interactions among those domains. Prereq(s): *Eligibility for Honors courses and PSY 111 or PSY 111H or permission of department chair.*

Crosslisted: *Also offered as PSY 211; credit is not given for both PSY 211H and PSY 211.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Explain the research methods used by behavioral scientists to study human development.
2. Identify the principal differences among current theories of human growth and development.
3. Identify basic genetic concepts and the mechanisms of gene-environment interactions.
4. Identify processes and milestones related to conception, prenatal development and delivery.
5. Analyze the influence of early life experiences upon the physical, cognitive and psychosocial functioning of humans.
6. Identify the major developmental milestones at each stage in the life cycle.
7. Explain the ways in which different domains of development - biological, sociocultural, emotional, and cognitive - influence each other throughout the lifespan.
8. Summarize major findings in current research about the aging process.
9. Identify personal and cultural influences on dying, mourning and grieving.

PSY 212 - Personality Psychology

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Study models of the personality in psychological science, including trait, humanistic, and learning models of personality. Learn how personality is measured and how personality is related to life outcomes such as health and relationship quality. Prereq(s): *PSY 111 or permission of department chair.*

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Define personality.

Describe the person-situation debate, how the debate was resolved, and the conditions under which personality can best predict behavior.

Explain different ways personality is assessed.

Describe trait models of personality, including the Big Five personality traits.

Describe the use of twin studies in studying personality.

Explain how genes and the environment can interact to shape personality traits.

Describe the contributions of humanistic psychology, including Maslow's hierarchy of needs, to our understanding of personality.

Describe how learning processes shape personality.

Explain how personality changes from young adulthood to old age and why.

Describe how personality predicts life outcomes.

Describe how the self-concept differs between individualistic and collectivistic cultures.

Explain how attachment influences adult relationships and personality.

PSY 214 - Abnormal Psychology

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Learn about mental disorders, including an examination of causes, symptoms, treatment and management. Study anxiety disorders, mood disorders, personality disorders and schizophrenia. Explore problems in the field of abnormal psychology and discuss current attempts to solve them. Prereq(s): *PSY 111 or PSY 111H or permission of department chair.* Crosslisted: *Also offered as PSY 214H;*

credit is not given for both PSY 214 and PSY 214H. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL)
Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain and evaluate major research methods used in this field;
- Compare, contrast and evaluate the models of abnormality;
- Explain and evaluate the process of assessment, diagnosis and treatment selection;
- Explain the symptoms, causes, treatment and management of the major disorders;
- Explain the relationship between the law and the mental health profession.

PSY 214H - Abnormal Psychology – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Social & Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Learn about mental disorders, including an examination of causes, symptoms, treatment and management. Study anxiety disorders, mood disorders, personality disorders and schizophrenia. Explore problems in the field of abnormal psychology and discuss current attempts to solve them. Prereq(s): *Eligibility for Honors courses and PSY 111 or PSY 111H or permission of department chair.* Crosslisted: *Also offered as PSY 214; credit is not given for both PSY 214H and PSY 214.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain and evaluate major research methods used in this field;
- Compare, contrast and evaluate the models of abnormality;
- Explain and evaluate the process of assessment, diagnosis and treatment selection;
- Explain the symptoms, causes, treatment and management of the major disorders;
- Explain the relationship between the law and the mental health profession.

PSY 215 - Psychology of Relationships

3 credit hours - Three hours weekly; one term.

A critical examination of human relationships including topics of love, friendship, gender, sexual orientation, cultural considerations, attraction, and conflict. Research, theories and practical applications for relationships and communication will be included. Prereq(s): *PSY 111 or permission of department chair.* Crosslisted: *Also offered as GSS 215; credit is not given for both PSY 215 and GSS 215.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Discuss the influential theories and analyze research in the field of relationship psychology.
- Demonstrate an understanding of how personality and development influence communication in relationships.
- Identify the causes of conflict, infidelity, aggression, and relationship violence from a culturally equitable viewpoint.
- Compare and contrast intimate relationship experiences from diverse perspectives.
- Identify how stress from personal experiences, disability, health challenges, finances, and culture impact relationships.
- Explain how relationships change across the lifespan.

PSY 216 - Human Sexuality

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Learn current information concerning biological, psychological and sociological aspects of human sexual functioning and related concerns. Prereq(s): *PSY 111 or PSY 111H or permission of department chair.* Crosslisted: *Also offered as PSY 216H/GSS 216/GSS 216H.* Note: *Credit is not given for PSY/GSS 216H and PSY/GSS 216.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Acquire a basic knowledge of human sexuality and the interaction of physiological, psychological and sociocultural processes on sexuality and behavior across the lifespan;
- Encourage critical analysis and synthesis of both the empirical literature and personal views and experiences on sexuality in the context of current social and cultural influences;
- Examine how diverse sexual belief systems created by race, ethnicity, class, gender, sexual orientation, age, and religion influence the expression of human sexuality in the individual, families, intimate relationships, and societies;
- Demonstrate an understanding of all the major theoretical concepts in psychology of sexuality and how they are used to describe or understand human behavior;
- Gain a better appreciation for the diversity of sexual practices and opinions;
- Increase ability to communicate openly and effectively about issues related to human sexuality to gain a better understanding of self and others.

PSY 216H - Human Sexuality – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Diversity Requirement. Learn current information concerning biological, psychological and sociological aspects of human sexual functioning and related concerns. Prereq(s): *Eligibility for honors courses; PSY 111 or PSY 111H or permission of department chair.* Crosslisted: *Also offered as PSY 216/GSS 216/GSS 216H.* Note: *Credit is not given for PSY 216H and also GSS 216/GSS 216H.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Acquire a basic knowledge of human sexuality and the interaction of physiological, psychological, and sociocultural processes on sexuality and behavior across the lifespan.
- Encourage critical analysis and synthesis of both the empirical literature and personal views and experiences on sexuality in the context of current social and cultural influences.
- Examine how diverse sexual belief systems created by race, ethnicity, class, gender, sexual orientation, age, and religion influence the expression of human sexuality in the individual, families, intimate relationships, and societies.
- Demonstrate an understanding of all the major theoretical concepts in psychology of sexuality and how they are used to describe or understand human behavior.
- Gain a better appreciation for the diversity of sexual practices and opinions.
- Increase ability to communicate openly and effectively about issues related to human sexuality to gain a better understanding of self and others.

PSY 221 - Psychology of Men

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Examines the factors that influence male behavior and masculine development. Topics include lifespan development, fathering, men's health, violence, education and relationships with emphasis on current psychological theories and research. Prereq(s): *PSY 111 or permission of department chair.* Crosslisted: *Also offered as GSS 221; credit is not given for both PSY 221 and GSS 221.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Acquire knowledge of men's gender role identities and gender schemas

- Illustrate and define gender role terminology that assesses the male experience

- Assess theoretical perspectives regarding male gender role socialization

Understand the advantages that gender expectations produce for both men and women

- Appraise the various historical trends that have arisen

- Predict future directions in the field of psychology of men

- Assess current contributions in the field

Describe the impact of peripheral issues such as physical health issues, potential mental health complexities and workplace dynamics

- Identify specific health-related issues to men
- Develop an understanding of the male experience in the workplace
- Describe mental health concerns related to the stressors intrinsic to the male experience

Explain the origins and specific issues related to men and violence

- Describe the dynamics involved in the issue of domestic violence
- Develop an understanding of the dynamics of sexual assault and victimization

Demonstrate knowledge of the impact of ethnic identity in relation to the male experience

- Analyze the cultural influences related to the experience
- Evaluate the impact of ethnicity and social class in the lives of men

Demonstrate an understanding of relationship dynamics and sexuality in relation to the male experience

- Describe the social development of men
- Analyze the issues related to sexuality, sexual issues and sexual problems
- Evaluate cross-cultural variations in male sexuality and relationships

PSY 222 - Psychology of Women

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Cover female development from childhood and adolescence through adulthood and old age. Study gender differences and stereotypes, sexuality, love relationships and violence against women. Develop a theoretical and practical understanding of the psychology of women. Crosslisted: *Also offered as GSS 222; credit is not given for both PSY 222 and GSS 222.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- introduce students to the scientific study of gender behavior and roles;
- acquire knowledge of women's gender role identities and gender schemas;
- develop understanding and awareness of power and privilege associated with gender;
- articulate the main points related to social construction of gender and gender-related differences in behavior;
- explore some major psychological issues that concern women such as gender discrimination, social and biological determinants of behavior, gender stereotypes, sexuality, health issues, and violence against women;
- describe classic and current theories regarding the psychological development and socialization of girls and women;
- critically evaluate psychological theory and research examining gender-related differences in a variety of areas, including cognitive abilities and social behavior;
- describe the biological and psychological bases of relationship dynamics and sexuality, particularly as they relate to cultural constructions of gender;
- understand and articulate the interactive influence of age, race, ethnicity, sexual orientation, ability, and class on girls' and women's psychological development across the life-span;
- provide the student with a framework for self-exploration and self-understanding.

PSY 223 - Social Psychology

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Examine the theoretical orientations and research on social perception, impression management, interpersonal relations, attitude change, conformity and leadership. Prereq(s): *PSY 111 or PSY 111H or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Define social psychology and identify the most influential historical perspectives that guide this field of study.
- Describe the steps of the scientific method and how explanations of human social behavior are dependent on continual data collection and assessment.
- Explain how culture and nature work together to determine social human behavior.
- Describe the processes of self-knowledge and the function of self-presentation.
- Define social cognition and describe how attributes affect our social interactions.
- Define attitude and summarize how attitudes are formed, maintained and modified.
- Identify and summarize the principals and techniques of social influence and persuasion.
- Define, describe and compare prosocial and aggressive behavior in human relations.
- Discuss the concept of prejudice, its roots and role in stereotyping and discrimination.
- Identify and describe principals of interpersonal attraction and the nature of close relationships.
- Describe the characteristics of groups, organizations and the role of culture.

PSY 224 - Multicultural Psychology

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Examine the role of culture in the psychological development of individuals and groups. Explore topics such as privilege, sexuality and gender, abnormal psychology, motivation, development, violence and social interaction. Prereq(s): *PSY 111 or PSY 111H or permission of department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Acquire knowledge multicultural role identities and schemas.

- Illustrate and define cross-cultural terminology that assesses the experience of multiple ethnicities.
- Assess and appraise theoretical perspectives regarding ethnicity and the application in the role socialization.

Understand better the advantages and disadvantages that come with cultural privilege and the expectations produced within and outside of dominate culture in communities.

- Appraise the various historical trends that have arisen.
- Predict future directions in the field of Multicultural Psychology.
- Assess important current contributions in the field.

Describe the impact of peripheral issues such as physical health issues, potential mental health complexities and workplace dynamics.

- Identify specific health-related issues related to culture.
- Develop an understanding of the cultural and ethnic experience in the workplace.
- Describe mental health concerns related to the stressors intrinsic to culture and ethnicity experience.

Explain the origins and specific issues related to culture and ethnicity and violence.

- Describe the dynamics involved in the issue of violence.
- Develop an understanding of the dynamics of hate crime and genocide.

Demonstrate knowledge of the impact of ethnic identity in relation to gender identity experience.

- Analyze the cultural influences related to the experience of gender.
- Evaluate the impact of ethnicity and social class in the lives of men and women of different cultures.

Demonstrate an understanding of relationship dynamics and sexuality in relation to culture.

- Describe the social development of culture and ethnicity.
- Analyze the issues related to socialization, sexuality, sexual issues and sexual problems.
- Evaluate cross-cultural variations in male sexuality and relationships.

PSY 225 - Psychology and Law

3 credit hours - Three hours lecture weekly; one term.

Examine the science of psychological theory and research as it applies to the legal system. Topics include eyewitness memory, interrogations and confessions, lie detection, jury decision making, and insanity evaluations. Prereq(s): PSY 111 or PSY 111H or permission of the Academic Chair. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

- Identify and describe major areas of overlap between psychology and law.
- Describe the role of forensic psychologists working in criminal and civil courts.
- Use psychological knowledge to evaluate the policies and procedures in the judicial system.
- Recognize the influence of stereotypes, prejudice, bias, and discrimination in the judicial system.
- Describe the career opportunities and the education and training required in the field.
- Use APA Style to describe and evaluate psychological research on the topic of law and human behavior.
- Communicate information about the field of psychology and law to diverse audiences.

PSY 250 - Statistics in Social and Behavioral Sciences

3 credit hours - Three hours weekly; one term.

Study basic statistics used in social and behavioral sciences. Covers standard topics in parametric statistics through a two-way analysis of variance. Also covers correlation, linear regression and non-parametric statistics. Meets the statistical requirement for most upper-level programs at four-year institutions in the area. Prereq(s): *MAT 135 or MAT 137 and either PSY 111 or SOC 111*. Crosslisted: *Also offered as SOC 250; credit is not given for both PSY 250 and SOC 250*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- utilize the terminology and special notation of statistical methods.
- differentiate between descriptive and inferential statistics and understand their roles.
- demonstrate methods of data organization and presentation.
- employ computer-assisted instruction as a tool for learning and data analysis.
- recognize the role of statistics in developing conclusions and gaining knowledge from data.
- apply the appropriate statistic when making decisions regarding data and hypotheses testing.
- think more critically about statistics as presented in journals and the media as a whole.

PSY 280-299 - Special Topics in Psychology

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Focuses on topics of psychological significance. Uses diverse psychological perspectives to provide theoretical, methodological and/or practical frameworks for a particular topic of interest. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Public Health Professions

PBH 101 - Introduction to Public Health

3 credit hours - Three hours weekly; one term.

Gain an overview of the principles of population health. Learn what determines disease and disability, how evidence is used to quantify the burden of disease, and how health professionals, the public health system and governmental structures contribute to the development of strategies for protecting health and reducing disease and disability. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

1. Identify eras in the historical development of public health and ways that public health affects daily life.
2. Compare public health professions and pathways and assess how they fit students' personal attributes, skills and interests.
3. Describe the basic principles of epidemiology, including rates, risk factors, disease determinants, causation and public health surveillance.
4. Explain how public health utilizes information, interventions, policy, law, and communication to improve the health of populations.
5. Explain how public health can utilize social and behavioral interventions to improve health of populations.
6. Explain the impact of the environment and communicable diseases on the health of populations.

7. Explain the burden of chronic diseases on morbidity and mortality and approaches to prevention and early detection
8. Describe the basic organization of public health systems and their role in public health emergencies.
9. Identify the roles of public health in addressing the needs of vulnerable populations and health disparities.
10. Describe a variety of systems thinking frameworks in public health (such as One Health).

PBH 102 - Introduction to Epidemiology

3 credit hours - Three hours weekly; one term.

Gain introductory background to the concepts that embody epidemiology and learn how health data is gathered, analyzed and applied to understanding health issues, and learn methods to measure outcomes. Apply basic skills in quantifying health variables and epidemiological applications. Prereq(s): *MAT 135 and eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. List sources of epidemiologic data and define related measures of morbidity and mortality.
2. Define the term descriptive epidemiology and describe the applications of descriptive epidemiology to the health of populations.
3. Differentiate between association and causation.
4. Define the term analytic epidemiology and differentiate among the types of analytic research designs.
5. Define the term evidence-based public health and discuss its applications.
6. Demonstrate knowledge of the applications of epidemiology to policy development.
7. Identify applications of epidemiology to outbreak investigation, social and behavioral phenomena, and special topics including work and the environment.
8. Demonstrate knowledge of the history, philosophy, and uses of epidemiology.

PBH 105 - Essentials of Health Behavior

3 credit hours - Three hours weekly; one term.

Learn social and behavioral theories that guide understanding of health related behavior form the foundations of our health promotion and prevention efforts. Explore ways in which these theories and approaches are used in applied health promotion efforts. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the role and range of social/behavioral theories useful in health promotion programs.
2. Describe the relationship of theories to an ecological framework of health determinants.
3. Explain the relationship between behavior and a selection of major health issues.
4. Analyze an existing health promotion program in terms of its basis in, and use of social/behavioral theory.
5. Design a hypothetical health promotion program utilizing applicable social/behavioral theory.
6. Describe the kinds of public health jobs/roles that draw on a knowledge of social/behavioral theory.

PBH 201 - Global Health

3 credit hours - Three hours weekly; one term.

Gain an introductory background to the concepts that embody global health. Learn the principles and goals of global health, apply knowledge of health determinants and epidemiologic trends, discuss the impact of economics while exploring ethical issues related to human rights and barriers to health. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Prereq or Coreq: *MAT 135.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

At the completion of this course, students will be able to:

- Recognize local, evidence-based, cost-effective programs that deal with disease-specific problems.
- Identify poverty and gender inequality as they relate to healthcare issues.
- Demonstrate abilities to analyze global health-related research.
- Recognize the determinants of illness.
- Identify innovative approaches to prevention and care.
- Identify means of improving the efficiency and coverage of health systems.
- Demonstrate sensitivity to the beliefs, culture, and value systems of populations.

PBH 202 - Emerging Public Health Issues

3 credit hours - Three hours weekly; one term.

Learn the historical context of the Healthy People initiatives and explore the data and process that was used to define the current objectives that will direct public health policy for the next decade. Prereq(s): *PBH 101*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Demonstrate analytical and assessment skills when working with public health data**
- Demonstrate and understand the process of policy development and program planning skills**
- Demonstrate appropriate command of the English language to articulate public health information with clarity and accuracy**
- Appreciate the role of cultural social and behavioral facts in the availability and delivery of public health services**
- Demonstrate the capacity to work in community based participatory research efforts**

PBH 203 - Health Education Promotion

3 credit hours - Three hours weekly; one term.

Gain an introduction to the profession of health education, including historical overview, terminology and discussions regarding locations and agencies where health education theory is being practiced. Focus on the potential impact of healthcare reform and how prevention research and health promotion will be integrated into the future of the US and global healthcare systems. Prereq(s): *PBH 101, PBH 102, and PBH 105, or permission of the department chair*. Note: *This course has a service learning requirement*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

1. List and explain the goals and objectives of health education/promotion.
2. Describe the current status of health education/promotion.
3. Trace the history of public health in the United States.
4. Identify and briefly explain the behavior change theories and their components used in health education/promotion.
5. Identify ethical issues associated with the profession of health education/promotion
6. List and describe the major responsibilities of a health education specialist.
7. Explain the differences among certification, licensure and accreditation.
8. Identify the primary professional associations/organizations and coalitions associated with health education/promotion.
9. Compare and contrast the roles of health education specialists in the four practice settings.
10. Evaluate the role of the health education specialist in addressing the increasing costs of health care.
11. Apply the public health approach- problem, cause, intervention and implementation to a new public health problem.

PBH 280-299 - Special Topics in Public Health

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Focus on topics of current interest in health, health education, and health management, including courses designed to meet expressed needs and interest within the community. Also for current graduates requiring additional course content to qualify for transfer credit, credit by examination, or who wish to update knowledge and skills. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Prereq(s): *Will vary depending on course offering*.

Radiologic Technology

RAD 110 - Radiologic Image Production

2 credit hours - Two hours of lecture weekly; one term.

Discuss and implement fundamental concepts and techniques necessary to produce radiographs. Identify principles of basic radiation safety, exposure parameters, radiographic accessory devices and principles of equipment manipulation and patient positioning to obtain diagnostic images. Prereq(s): *Acceptance to the Radiologic Technology Program*. Coreq(s): *RAD 111 and RAD 112*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify the components of the x-ray tube and describe the individual contributions of each during Bremsstrahlung and Characteristic x-ray production.

Describe x-ray interaction with matter and its effect on the process of image formation.

Discuss the various exposure technique factors affecting image quality and describe how to properly manipulate them to obtain a diagnostic image based on patient body habitus, abilities/inabilities, equipment/room limitations, and disease processes.

Identify and describe scatter radiation and discuss the various radiographic accessories used to limit the presence of scatter radiation on an image.

Describe the individual components of computed radiography and the role each component plays during latent and manifest image formation.

Discuss quality control, digital artifacts, and the role of the PACS system in digital imaging.

Demonstrate problem-solving/critical thinking skills and DEIA skills in patient care management scenarios to obtain diagnostic images.

RAD 111 - Radiographic Procedures 1: Positioning and Patient Care

4 credit hours - Two hours of lecture and four hours of college laboratory weekly; one term.

Formerly RAD 111 Radiographic Procedures 1 Review basic medical terminology, medical and legal ethics, history of radiography, infection control, radiation protection and the healthcare system. Identify fundamental skills for radiographic procedures of the chest, abdomen, and extremities to include shoulder and pelvis. Demonstrate appropriate patient care, proper equipment use, application of radiation safety, body mechanics, universal precautions, vital signs assessment, medical emergencies and management of the patient with special needs during supervised lab sessions. Lab fee \$250. Prereq(s): *Acceptance to the Radiologic Technology Program*. Coreq(s): *RAD 110 and RAD 112*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Define and compare the role and responsibilities of the radiographer to that of other health professionals.
2. Demonstrate effective patient care procedures in the laboratory setting including safe radiation practices.
3. Define and explain basic knowledge of infection control and basics of pharmacology in radiology.
4. Define and explain the basic concepts of health information management including medical terminology and demonstrating understanding of computer usage, security and ethics.
5. Identify and manipulate radiographic equipment and technical factors used for radiographic procedures.
6. Properly demonstrate positioning a patient for radiographic procedures of the upper limb, lower limb, chest, upper airway, abdomen, humerus, shoulder girdle, femur, and pelvic girdle within reasonable time limits with proficiency.
7. Apply an effective critique method for radiographic images.
8. Apply problem-solving/critical thinking skills and cultural diversity skills in patient care management scenarios.

RAD 112 - Clinical Radiography 1

5 credit hours - 16 hours of clinical laboratory weekly; one term.

Perform fundamental radiologic procedures of the chest, abdomen, and extremities to include shoulder and pelvis in a supervised clinical setting while practicing infection control, assessment skills, body mechanics, radiation safety, patient education and discharge instructions. Clinical fee \$175. Prereq(s): *Acceptance to the Radiologic Technology Program*. Coreq(s): *RAD 110 and RAD 111*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate effective patient care including transfer of patients, history taking skills, radiation protection, and other entry-level skills.
- Orient to the radiologic technology department in safety procedures and use of specific imaging equipment.
- Obtain diagnostic images on routine and special projections of the chest, abdomen, upper/lower extremities, shoulder/pelvic girdles, spine, bony thorax, contrast exams, head, bedside exams, operating room, and shock trauma procedures by following departmental protocols.
- Apply radiation safety practices to ensure protection of the patient, personnel and self.
- Demonstrate advanced problem-solving, critical thinking, and DEIA related skills in patient care management scenarios to obtain diagnostic images.

Define and demonstrate basic concepts of health information management including medical terminology and demonstrating understanding of computer usage, security and ethics.

RAD 121 - Radiographic Procedures 2

5 credit hours - Three hours of lecture and four hours of college laboratory weekly; one term.

Review and perform intermediate level radiographic exams to include the spinal column, bony thorax, fluoroscopic procedures, and headwork. Display competency of intermediate radiologic technology concepts, principles and skills of radiographic procedures with a focus on populations such as pediatric, geriatric and trauma patients during supervised lab sessions. Lab fee \$250. Prereq(s): RAD 110, RAD 111, and RAD 112 with grades of C or better. Coreq(s): RAD 122 and RAD 123. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

At the completion of the course, the student will:

1. Identify and manipulate radiographic equipment and technical factors used for radiographic procedures.
2. Identify the contrast media used in radiography of the digestive system and describe proper administration of various types of contrast media.
3. Demonstrate safe radiation practices for the patient, self, and others.
4. Properly demonstrate positioning a patient for radiographic examinations on pediatric, geriatric and trauma patients.
5. Properly demonstrate positioning a patient for radiographic procedures of the vertebral column, gastrointestinal system, genitourinary system, arthrography, bony thorax, and headwork within reasonable time limits with proficiency.
6. Apply an effective critique method for radiographic images.
7. Apply problem-solving/critical thinking skills and cultural diversity skills in patient care management scenarios.

RAD 122 - Clinical Radiography 2

5 credit hours - 16 hours of clinical laboratory weekly; one term.

Perform radiologic procedures in a supervised clinical setting to include infection control, assessment skills, patient education and discharge instruction. Demonstrate continued competence of radiographic exams of the extremities, chest, abdomen, shoulder, and pelvis and introduce intermediate exams including spinal column, fluoroscopy, bony thorax and headwork. Exhibit critical thinking skills as they pertain to trauma positioning and mobile radiography at the bedside and in the operating room. Clinical fee \$175. Prereq(s): RAD 110, RAD 111, and RAD 112 with grades of C or better. Coreq(s): RAD 121 and RAD 123. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate advanced and effective patient care including transfer of patients, history taking skills, radiation protection, and other entry-level skills.
- Orient to the radiologic technology department in safety procedures and use of specific imaging equipment.
- Obtain diagnostic images on routine and special projections of the chest, abdomen, upper/lower extremities, shoulder/pelvic girdles, spine, bony thorax, contrast exams, head, bedside exams, operating room, and shock trauma procedures by following departmental protocols.
- Apply radiation safety practices to ensure protection of the patient, personnel and self.
- Demonstrate advanced problem-solving, critical thinking, and DEIA related skills in patient care management scenarios to obtain diagnostic images.
- Define and demonstrate advanced concepts of health information management including medical terminology and demonstrating understanding of computer usage, security and ethics.

RAD 123 - Imaging Equipment Maintenance and Operation

3 credit hours - Three hours of lecture weekly; one term.

Gain a fundamental understanding of radiation physics to include detailed explanations of x-ray circuitry, image intensification, digital imaging acquisition, mobile radiographic devices, imaging artifacts and quality control. Review C-arm functions, sterile techniques and the role of the radiographer during operating room procedures. Focus on establishing fundamental concepts and basics of radiation safety, exposure parameters, radiographic accessory devices and principles of equipment manipulation. Prereq(s): RAD 110, RAD 111, and RAD 112 with grades of C or better. Coreq(s): RAD 121 and RAD 122. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Establish a basic knowledge of atomic structure and terminology, sources of radiation, measurements and basic mathematical concepts related to movement and energy.
- Describe the relationship between electricity, magnetism and electromagnetism.
- Diagram and explain the various elements and operation of the x-ray and fluoroscopic equipment and circuitry.
- Diagram and explain direct digital radiography and indirect digital radiography image acquisition to include digital imaging artifacts, quality assurance measures and maintenance of imaging equipment and accessories.
- Describe sterile procedures and basic instruction of C-arm manipulation of operating room procedures and radiation safety practices for patient and personnel with practical opportunities in lab.
- Define and explain the basic computer functions necessary for digital image acquisition.

RAD 212 - Clinical Radiography 3

6 credit hours - 32 hours of clinical laboratory weekly; one term.

Demonstrate continued competence of previously learned radiologic procedures in a supervised clinical setting to include advanced specialized fluoroscopic exams and atypical orthopedic procedures. Apply advanced patient management techniques that include ECG analysis, vital signs, oxygen and venipuncture skills to enhance the student radiographers' patient care management skills in the clinical setting. Clinical fee \$175. Prereq(s): *RAD 121, RAD 122, and RAD 123 with grades of C or better.* Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate effective patient care including transfer of patients, history taking skills, radiation protection, and other introductory level skills.
- Orient to the radiologic technology department in safety procedures and use of specific imaging equipment.
- Follow department protocols for obtaining diagnostic images on routine and special projections of the chest, abdomen, upper/lower extremities, shoulder/pelvic girdles, spine, bony thorax, contrast exams, head, bedside exams, operating room, and shock trauma procedures.
- Apply radiation safety practices to ensure protection of the patient, personnel and self.
- Demonstrate problem-solving/critical thinking skills and DEIA skills in patient care management scenarios to obtain diagnostic images with a special concentration trauma patients.

RAD 231 - Radiographic Procedures 4

3 credit hours - Two hours of lecture and two hours of college laboratory weekly; one term.

Demonstrate basic knowledge of computed tomography, digital radiography, ultrasonography, magnetic resonance imaging, interventional radiography and computer applications in radiology. Identify pathologic disorders and their respective impact on radiography. Lab fee \$250. Prereq(s): *RAD 212 with a grade of C or better.* Coreq(s): *RAD 232.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Differentiate specialized imaging and therapeutic modalities and the general diagnostic imaging exams for specific pathology.
- Discuss computer applications, implications and inequities in the Imaging Sciences.
- Define and explain the advanced concepts of health information management including medical terminology and demonstrating understanding of computer usage, security and ethics.
- Describe the basic components and operations of computerized tomography (CT), ultrasound, magnetic resonance imaging (MRI) and identify the associated cross-sectional anatomy.
- Discuss how various pathologies influence visible changes on radiographic images.
- Explain exposure parameter adjustment in adapting to specific pathologies to produce quality radiographic images to assist in a correct diagnosis.
- Demonstrate mastery of test-taking skills by utilizing the mock registry exams for the radiologic technology profession.

RAD 232 - Clinical Radiography 4

6 credit hours - 24 hours of clinical laboratory weekly; one term.

Perform radiologic procedures in a supervised clinical setting to include routine and specialized procedures. Apply advanced patient management skills in the clinical setting. Modify radiographic positioning and selection of exposure parameters based on patient evaluation and condition. Clinical fee \$175. Prereq(s): *RAD 212 with a grade of C or better*. Coreq(s): *RAD 231*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate advanced and effective patient care including transfer of patients, history taking skills, radiation protection, and other entry-level skills.
- Orient to the radiologic technology department in safety procedures and use of specific imaging equipment.
- Obtain diagnostic images on routine and special projections of the chest, abdomen, upper/lower extremities, shoulder/pelvic girdles, spine, bony thorax, contrast exams, head, bedside exams, operating room, and shock trauma procedures by following departmental protocols.
- Apply radiation safety practices to ensure protection of the patient, personnel and self.
- Demonstrate advanced problem-solving, critical thinking, and DEIA related skills in patient care management scenarios to obtain diagnostic images.
- Define and demonstrate advanced concepts of health information management including medical terminology and demonstrating understanding of computer usage, security and ethics.

RAD 250 - Radiation Biology, Protection, and Safety

4 credit hours - Three hours of lecture and two hours of college lab weekly; one term

Investigate the principles of the effects of radiation on human cells. Examine the responsibility of the radiographer to protect patients, personnel and the public from the effects of radiation. Discuss and apply calculations of permissible radiation dosage and the effect of laws and regulations on radiation protection. Prepare for the national certification examination. Lab fee \$250. Prereq(s): *RAD 231 and RAD 232 with grades of C or better*. Coreq(s): *RAD 252*. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe cellular biology the effects of ionizing radiation based on cell radiosensitivity and response.
- Recognize the various health effects of radiation exposure.
- Assess the various ethical, moral, and legal issues associated with the use of radiation and recognize the importance of radiation safety according to agencies and regulations.
- List the units and measures used to evaluate radiation exposure.
- Describe a radiation safety program that applies to patient and personnel.
- Define and explain the advanced concepts of health information management including medical terminology and demonstrating understanding of computer usage, security and ethics.
- Demonstrate mastery of test-taking skills by utilizing the mock registry exams for the radiologic technology profession.

RAD 252 - Clinical Radiography 5

6 credit hours - 24 hours of clinical laboratory weekly; one term.

Demonstrate entry-level practitioner skills in a supervised clinical setting to include global competence in the areas of radiographic positioning, patient assessment, effective communication, exposure parameter settings, and organizational and patient management skills. Clinical fee \$175. Prereq(s): *RAD 231 and RAD 232 with grades of C or better*. Coreq(s): *RAD 250*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate advanced effective patient care including transfer of patients, history taking skills, radiation protection, and other entry-level skills.
- Orient to the radiologic technology department in safety procedures and use of specific imaging equipment.

Obtain diagnostic images on routine and special projections of the chest, abdomen, upper/lower extremities, shoulder/pelvic girdles, spine, bony thorax, contrast exams, head, bedside exams, operating room, and shock trauma procedures by following departmental protocols.

Apply radiation safety practices to ensure protection of the patient, personnel and self.

Demonstrate advanced problem-solving, critical thinking, and DEIA related skills in patient care management scenarios to obtain diagnostic images.

Define and demonstrate advanced concepts of health information management including medical terminology and demonstrating understanding of computer usage, security and ethics.

RAD 280-299 - Special Topics in Radiologic Technology

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For students seeking readmission to the radiologic technology program or transfer from an accredited program. If a review of course outlines from transfer courses identifies omissions in content, students will be required to take from one to eight credits in this course. Courses may be pursued by practicing radiologic technologists who wish to update theory. Courses focus on advanced levels of care or topics of interest. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Lab fee \$0-50. Prereq(s): *Permission of radiologic technology department chair.*

Reading and Writing for Success

RWS 300 - Reading and Writing for Success

12 equivalent credit hours - Twelve hours weekly, one term.

Expand basic vocabulary, develop basic sentence and paragraph writing strategies and build reading comprehension through text, class and online activities. Intensive instruction in reading and writing skills with individualized learning plans. This course is offered at no cost to Anne Arundel County residents. Placement scores determine eligibility.

Scientific Research

SCI 101 - Introduction to Research

1 credit hour - One hour of lecture weekly; one term.

Investigate the process of conducting research, from initial literature reviews to project outline and data collection. Engage in a variety of research projects at AACC and during field trips to local research facilities in the Chesapeake region's diverse habitats, using a wide range of scientific tools and technologies. Design a research project to conduct with faculty mentorship at AACC. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Note: *This course may include field trips during class time. Transportation will be provided.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Access, interpret, and analyze scientific literature and other forms of scientific knowledge.

Design a research project and identify appropriate methods and techniques needed to conduct the project.

Apply various research methods in the field or laboratory and record data in a dynamic environment.

Work collaboratively with others to achieve set goals.

SCI 201 - Research Experience

2 credit hours - One hour lecture, two hours laboratory weekly, one term.

Design and conduct an original research project with the guidance of a faculty mentor. Operate a variety of discipline-specific equipment and learn research methods and techniques. Search databases to find existing work in the relevant field and determine how the research project adds to the body of knowledge. Enhance oral presentation skills by presenting research findings to faculty and peers and develop a plan to present findings to a broader audience through publications or conferences. Prereq(s): *SCI 101 or permission of department.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Develop and implement an original research project with a faculty mentor.

- Conduct a literature review and explain how the project will add to the relevant body of work.
- Explain possible ethical implications of the project.
- Understand and apply appropriate laboratory safety procedures.
- Develop a working familiarity with discipline-relevant technology and equipment necessary to conduct the research project.
- Maintain a laboratory notebook recording experimental procedures and data.
- Present research findings periodically to faculty and fellow research students.

SCI 202 - Research Communication

1 credit hour - One hour lecture weekly, one term.

Explore the process of communicating research results to a range of audiences, focusing on scientific journal articles and oral or poster presentations at scientific conferences. Critique existing articles and presentations to refine your own list of best practices for research communication. Examine research results to write, edit, and submit for publication a scientific journal article and become a published author. Design a research presentation to present during the course or at a regional conference in your field. Prereq(s): *SCI 201 or permission of department.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

- Describe the purposes of the key parts of peer-reviewed journal papers and approaches to writing these sections.
- Create well-structured figures including titles, figure legends, and statistics.
- Conduct a literature review and create a thorough and properly formatted references section.
- Critique peer work constructively.
- Write a research paper containing the components necessary for submission to a peer-reviewed journal.
- Design a presentation on a research topic and deliver an effective oral presentation.

Sociology

SOC 102 - Introduction to Masculinity Studies

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Explore issues in the lives of American men. Investigates the interdisciplinary field of masculinity studies by examining contemporary theories of masculinity, changes in the definitions of masculinity in different periods of American history, the sociology and psychology of men's experiences, and gender and sexuality as organizing features of men's lives. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as AMS 102 and GSS 102; credit is given for only one of the following: AMS 102, GSS 102 or SOC 102.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Use an interdisciplinary approach to evaluate and synthesize scholarship on gender.
- Apply different theoretical approaches to issues of gender and socialization.
- Explain how cultural, social, political, and historical forces shape gender roles and gender relations.
- Discuss the effect of diversity on the American government and economy.
- Describe how gender roles and relations are socially and culturally constructed with attention to gender-defining social institutions.
- Explain the how gender stereotypes are reproduced and resisted through the process of socialization with attention to various agents of socialization including the family, peer groups, media, and schools.

SOC 105 - Exploring the Future

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Investigate the future in a changing world. Using tools and perspectives across fields of study and cultures, students expand foresight and build the future. Acquire an appreciation for the complexity of our global society and its diversity. Crosslisted: *Also offered as BPA 105; credit is not given for SOC 105 and BPA 105.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify approaches to and paradigms for the study of the future.
- Describe a process of visioning for and planning for the future.
- Demonstrate methods of investigating the future.
- Measure and identify the impact of social change and social trends.

SOC 111 - Introduction to Sociology

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Learn sociological principles and perspectives as a way of understanding everyday social life. Study meanings and functions of various roles in historical and contemporary societies. Evaluate causes, consequences and comparisons of social hierarchies. Also offered as an honors course, SOC 111H. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as SOC 111H; credit is not given for both SOC 111 and SOC 111H*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply a sociological scientific approach to understanding human social behavior
- Evaluate the methodology, results and conclusions of social research
- Explain the organization of society, and the interrelationship of its institutions and social groups
- Recognize the issues of diversity arising in a complex society
- Apply sociological principles and skills to one's own experience for logical, rational problem solving
- Apply sociological principles to understanding how society changes
- Explain the nature of culture and society
- Interpret the nature of deviant behavior in society and culture

SOC 111H - Introduction to Sociology – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Social & Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Learn sociological principles and perspectives as a way of understanding everyday social life. Study meanings and functions of various roles in historical and contemporary societies. Evaluate causes, consequences and comparisons of social hierarchies. Prereq(s): *Eligibility for Honors courses and ENG 101/ENG 101A*. Crosslisted: *Also offered as SOC 111; credit is not given for both SOC 111H and SOC 111*. Note: *Complete and present an honors capstone research project that extends beyond the classroom*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Apply a sociological scientific approach to understanding human social behavior
- Evaluate the methodology, results and conclusions of social research
- Explain the organization of society, and the interrelationship of its institutions and social groups
- Recognize the issues of diversity arising in a complex society
- Apply sociological principles and skills to one's own experience for logical, rational problem solving
- Apply sociological principles to understanding how society changes
- Explain the nature of culture and society
- Interpret the nature of deviant behavior in society and culture

SOC 122 - Social Problems

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. Identify and analyze problems in communities and in society. Employ sociological skills and perspectives to formulate creative solutions to relevant problems. Social problems explored may vary from class to class depending on historical and contemporary relevance. Prereq(s): *Eligibility for ENG 101/ENG*

101A. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify social problems facing America and around the globe.
- Use an interdisciplinary approach to examine the complex nature of social problems, including their causes.
- Identify the problems we as a society face in coping with our social problems.
- Apply the practical uses of sociology to propose solutions to social problems.

SOC 124 - Substance Abuse in America

3 credit hours - Three hours weekly; one term.

Examine the impact of drugs and alcohol on American society. Review the history of drug and alcohol use and focus on social impact and societal response. Study individual, community and political efforts to control, regulate and treat drug abuse problems. Discuss addiction theories and effects of commonly abused drugs. Approved by the Office of Education and Training for Addictions Services (OETAS). Prereq(s): *Eligibility for ENG 101/ENG 101A.*

SOC 132 - Juvenile Delinquency

3 credit hours - Three hours weekly; one term.

Analyze how society labels, processes, controls and treats juvenile offenders. Review theories of causality; methods of classification; rates, types and trends of juvenile delinquency; and evolving legal approaches. Discuss special areas including violence, drug use and gang behavior. Prereq(s): *SOC 111 or PSY 111 and eligibility for ENG 101 or ENG 101A.* Crosslisted: *Also offered as CJS 132; credit will be not given for both SOC 132 and CJS 132.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the nature and extent of delinquency locally, nationally, and world-wide.
- Discuss different theoretical approaches to the causation of delinquency and delinquent trajectories.
- Critically evaluate various problem areas in delinquency and propose appropriate solutions.

SOC 150 - Introduction to Aging Studies

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Examine the myths, demographics, psychosocial perspectives and biomedical aspects of growing old in America. Discuss issues impacting older persons including economics, politics, religion, leisure, social/living environment, intimacy and sexuality, health care and death and dying. Prereq(s): *Eligibility for ENG 101/ENG 101A.* Crosslisted: *Also offered as HUS 150; credit is not given for both SOC 150 and HUS 150.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Analyze one's own sociocultural experience and one's own biological and psychological background and characteristics to explain one's attitudes about aging
- Discuss major concepts and tools used in the study of human aging
- Define major sociocultural, psychological and biological concepts and theories relative to human aging
- Describe the interrelationships of biological, psychological, and sociocultural aspects of human aging.
- Discuss the theories and concepts appropriate to the economics and politics of aging
- Compare the diversity of the aging experience across ethnic, race, class and gender lines
- Use technology to retrieve, interpret, and analyze data and write reports
- Apply logical and rational problem solving to issues in aging.

SOC 210 - Sociology of Deviance

3 credit hours - Three hours weekly; one term.

Determine the role, function and meaning of deviation in society. Focus on the theories of deviance, regulation of behavior, deviant

subcultures and the management of deviant identity. Topics include deviant lifestyles, violent groups and criminals, human sexuality, hustlers, drug users and others who might be viewed as outsiders by the eye of the beholder. Prereq(s): *SOC 111*.

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Describe and examine how deviance is shaped by society, culture, and history.
2. Apply theories and concepts of social deviance in the social world.
3. Identify how power and social inequality shape the definition of deviance.

SOC 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies

3 credit hours - Three hours weekly; one term.

This course meets the Social and Behavioral Sciences General Education Requirement. This course meets the Diversity Requirement. Examine the diversity of lesbian, gay, bisexual and transgender (LGBT) behaviors, orientations, identities, communities, and issues from a trans-historical, cross-cultural and interdisciplinary perspective with special emphasis on LGBT culture in the United States. Study the history of human sexuality and gender identity/expression; cultural and social constructions of sexuality and gender; representations of LGBT experience in textual and visual media; legal rights and restrictions; current events and socio-political issues of current interest; methods of queer theory/queer studies; and advocacy, activism and change. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as AMS 212 and GSS 212; credit is given for only one of the following: AMS 212, GSS 212 or SOC 212*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Use appropriate vocabulary to explain key concepts related to LGBT studies.
- Identify key debates over sexual identity with attention to the issues of power, privilege, and oppression.
- Discuss the influence of earlier academic and political movements in the development of LGBT studies, as well as the relationship between Gay and Lesbian Studies, Queer Studies, and Queer Theory.
- Analyze negative cultural images of LGBT people, the use of pop culture to establish an LGBT cultural identity, and the contributions by LGBT people to the arts.
- Discuss psychological, medical, and safety issues, as well as interventions in the lives of LGBT people.
- Discuss LGBT experiences in different global cultures and in different contexts within the US.
- Survey the major historical events in early LGBT history and trace the major events in recent US history.
- Discuss civil rights, safety, health, and work issues that affect LGBT people, and the potential remedies advocated by various LGBT movements.

SOC 213 - Marriage and the Family

3 credit hours - Three hours weekly; one term.

Survey of the dynamics of life in families. A view of the family as a changing social unit and implications of these changes for the individual. Reviews social forces that influence mating and dating, marriage and divorce, and deals with topics of love, sexuality, parenting, aging and death. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as GSS 213; credit is not given for both SOC 213 and GSS 213*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, students will be able to:

- Understand the social, cultural, and political nature of marriage and the benefits and obligations it confers.
- Identify different family forms and explain the effect of family form on social structures and vice versa.
- Recognize the role of the family in socialization throughout the life course.
- Explain how norms of family structure and care subsidize other social structures including the economy and the labor market.
- Recognize diversity in contemporary families.

SOC 220 - Gender and Culture: Gender Roles in Cross-Cultural Perspective

3 credit hours - Three hours weekly; one term.

Examination of various cultures to understand how gender and gender roles are constructed and how they structure social relationships. Course presents theoretical perspectives and empirical evidence from a variety of cultures, including pre-industrial,

industrial, post-industrial societies and developing countries. Prereq(s): *GSS 101, SOC 111 or ANT 121 /SOC 121*. Crosslisted: *Also offered as GSS 220; credit is not given for both SOC 220 and GSS 220*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

SOC 224 – Criminology

3 credit hours - Three hours weekly; one term.

Study the cultural and historical influence of crime. Explore topics relating to the definition and meaning of crime and criminality; problems of official data; theoretic approach to causes of crime; and social and legal aspects of the criminal justice system with emphasis on roles of police, lawyers, judges, public and victims. Examine evolving theories and approaches to punishment, ranging from probation to capital punishment. Prereq(s): *SOC 111 or PSY 111 and eligibility for ENG 101 or ENG 101A*. Crosslisted: *Also offered as CJS 224; credit will not be given for both SOC 224 and CJS 224*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Discuss the law as a social construction that changes over time in accordance with social norms, values, and power structures.
- Identify trends in the demographic and social characteristics of criminal offender and crime victim populations.
- Discuss the special manifestations of crime - criminal careers, conventional crime, public order crime, organized crime, occupational crime, as well as habitual and abnormal offenders.
- Critically evaluate the effectiveness of social policies regarding corrections, incarceration, and treatment of offenders.
- Evaluate the methods, results, and conclusions of criminological research.
- Explain major theories of the causes and consequences of crime.

SOC 225 - Cultural Representations of Disability, Gender and Sexuality in the U.S.

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Explore the representations of disability in American popular culture. Analyze how gender and sexuality affect the representations of disability. Examine the connections between representations of oppressed groups in popular culture and the unequal distribution of economic, political and social power in the U.S. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Crosslisted: *Also offered as AMS 225 and GSS 225; credit is given for only one of the following: AMS 225, GSS 225 or SOC 225*.

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate an understanding of cultural theory.
- Demonstrate an understanding of the history of disability activism
- Demonstrate an understanding of the history of disability representation.
- Analyze cultural texts for messaging about disability, gender and sexuality.
- Analyze the relationship between popular culture and social inequalities.

SOC 230 - Introduction to Applied Sociology

3 credit hours - Three hours weekly; one term.

This hands-on introduction uses sociology concepts, skills and tools to actively analyze and engage problems facing a variety of clients and organizations including business, government, religion and other community agencies and groups. Employ sociological perspective and tools to identify, investigate and actively seek solutions to issues of structure, process and social change. Prereq(s): *SOC 111 or permission of instructor*.

SOC 250 - Statistics in Social and Behavioral Sciences

3 credit hours - Three hours weekly; one term.

Study basic statistics used in social and behavioral sciences. Covers standard topics in parametric statistics through a two-way analysis of variance. Also covers correlation, linear regression and nonparametric statistics. Meets the statistical requirement for most upper-level programs at four-year institutions in the area. Prereq(s): *MAT 135 or MAT 137 and either PSY 111 or SOC 111*. Crosslisted: *Also offered as PSY 250; credit is not given for both SOC 250 and PSY 250*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- utilize the terminology and special notation of statistical methods.
- differentiate between descriptive and inferential statistics and understand their roles.
- demonstrate methods of data organization and presentation.
- employ computer-assisted instruction as a tool for learning and data analysis.
- recognize the role of statistics in developing conclusions and gaining knowledge from data.
- apply the appropriate statistic when making decisions regarding data and hypotheses testing.
- think more critically about statistics as presented in journals and the media as a whole.

SOC 265 - Social Research Methods

3 credit hours - Three hours weekly; one term.

Explore research methods common to all social and behavioral sciences used in business, government, medicine and education. Learn to write questionnaires, select a sample, employ basic experimental design while reviewing the association between research and theory. Also offered as an honors course SOC 265H. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

- Learn social research theories and methods.
- Understand, construct and apply research design to basic and applied problems.
- Explore basic statistical techniques.
- Develop analysis and presentation skills necessary to communicate research findings.

SOC 275 - Practicum in Sociology

3 credit hours - One hour of seminar and 10 hours of related work weekly; one term.

Continue to learn, through greater levels of responsibility and academic assignments, how classroom principles and concepts in sociology are applied on the job. The continued work experience will result in further integration and reinforcement of academic learning under coordinated job experiences. Prereq(s): *SOC 111 or permission of department chair*.

SOC 276 - Practicum in Applied Social Research

3 credit hours - One hour of seminar and 10-15 hours of related work weekly; one term.

Selected students continue to learn and apply, at increased levels of competency, the principles learned in SOC 265, Social Research Methods. Participate in a variety of tasks which may include exposure to applied research problems and written and oral presentations. The work experience requires creation of an applied research project in collaboration with an employer. Prereq(s): *SOC 265 and approval of department chair*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate the ability to design and implement sound research methodologies appropriate for addressing social issues.
- Acquire proficiency in analyzing research data using quantitative and/or qualitative methods.
- Develop effective communication skills to present research findings to diverse audiences.
- Apply research skills to address real-world social challenges.

SOC 280-299 - Special Topics in Sociology

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Focuses on topics of social relevance. Uses a sociological perspective to provide a theoretical and methodological framework for a particular topic of interest. Allows a merger of students' interests and the disciplinary strengths of faculty members. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings.

Sport Studies

SPT 123 - Sports in America

3 credit hours - Three hours weekly; one term.

Examine the role, function and significance of sports and their impact on the hearts and minds of Americans. Research topics such as myth and legends, rituals and ceremonies, women and sports, amateurs and professionals, the business of sports and sports as a secular religion. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

Develop an understanding of American sports history as academic inquiry.

- Understand intersection between historical events and sports.
- Identify historical trends as they relate to diversity issues in sports.
- Examine the relationship between sports and national identity.

Examine class issues in sports.

- Assess areas of class as it relates to sports preferences.
- Examine the impact of immigration on sports.
- Explain the connection between socioeconomic and class issues in the popularity of sporting events.

Examine the influence of race on sports.

- Understand the role of sports during slavery, Jim Crow, segregation, and in the modern era.
- Examine the dynamics of race within amateur and professional sports.
- Observe the impact of race in the marketing of sports.

Examine the influence of gender on sports.

- Examine historical perspectives of women in sports.
- Identify important influences on the advancement of women in sports.
- Assess the impact of sexism within the marketing of sports.

Identify the role that sports play within a geopolitical framework.

- Dissect the interplay between sports and politics on a local and national scale.
- Examine nationalism as a concept that appears within sporting events.
- Develop a further understanding about the meaning of sports within American history.

Examine the role of the media in sports.

- Understand the impact of newspapers, radio, and television on the popularity of sports.
- Assess the media's role in the creation of sports heroes.
- Examine the use of sports-related ideas in other venues.

SPT 200 - Sociology of Sports

3 credit hours - Three hours weekly; one term.

Examine the intersection of sports within broader society, assessing the implication of sports within the culture, its impact on economic inequality and social mobility, and its overall influence on the media, politics, economics, religion, race, gender, age and sexual orientation. Address sports as a modern social science in need of academic inquiry. Prereq(s): *Eligibility for ENG 101/ENG 101A.*

Course Outcomes

Develop an understanding of Sports Sociology as academic inquiry.

- Operationally define the boundaries of sports as social science.
- Identify common research methods in the field.
- Examine basic terms sociological terms under a sports framework.

Examine the relationship between sports and social life.

- Assess areas of social organization, group behavior, and social interactions within a sports framework and paradigm.
- Create a framework by which areas such as gender, sexuality, social class, race, ethnicity, and disability can be understood through a sports lens.
- Explain sports and the significant interactions it has in the following areas: politics, education, the economy, religion, psychology, philosophy, and the family.

Identify the relationship between the media and sports.

Understand the dynamics behind the saturation of sports in society.
Examine ways in which the media's connection to sports reinforces or challenges current paradigms.
Observe how the interaction between the media and sports has brought about social change.

Understand the elements and continued development of ethics within a sports context.

Examine historical codes of ethics and rules within sports.
Identify ethical considerations specific to sports.
Assess the construct of deviance within a sports context.

Identify the role that sports plays within a geopolitical framework.

Dissect the interplay between sports and politics on a local, national, and global scale.
Examine nationalism as a concept that appears within sporting events.
Understand the manner in which the Olympic Games have affected relationships on a global scale.
Develop a further understanding about the meaning of sports around the world.

Examine the societal importance of sports.

Understand the concepts of rational recreation and leisure.
Assess the connection between achievement and sports.
Examine the use of sports-related idea in other venues.

SPT 213 - Sports Philosophy

3 credit hours - Three hours weekly; one term.

Examine, within a psychological, sociological and historical context, the origins of values within a sports context. Learn ethical theories such as rule utilitarianism and Kantian moral theory, using that framework as a means by which to assess such issues as sports identification, exploitation of athletes, gender, race and class issues in sports and sports violence. Prereq(s): *Eligibility for ENG 101/ENG 101A*. Note: *Typically offered OL; fall and spring terms.*

Course Outcomes

Develop an understanding of sports through a philosophical lens.

Understand ethical theories relevant to sports.
Identify arguments supporting and countering relevant ethical concepts related to sports.
Examine and express an understanding of philosophical terms within specific situations that arise in sports.

Examine the practice and concept of tolerance within a sports paradigm.

Assess areas of inequality that arise in sports, such as gender inequality, racial or ethnic inequality, and disability-related situations.
Identify and create potential frameworks by which to support the promotion of diversity within sports.
Explain areas in which sports can be a potential obstacle within tolerance and diversity.

Use the discipline of philosophy as a framework by which to address controversies within sports.

Understand further the precipitants of violence through the examination of philosophical theory.
Examine motivations and objectives behind the usage or non-usage of performance enhancing drugs.
Address the issue of exploitation of intercollegiate athletes.

Understand the continued organic development of ethics within a sports context.

Examine historical codes of ethics and rules within sports.
Identify new ethical considerations specific to sports.
Assess the construct of deviance within a sports context.

Examine the ethics regarding the use of animals within sporting events.

Identify the historical nature of sports where animals were either central players or involved.
Examine hunting within various ethical frameworks.
Understand the current and future controversies surrounding use of animals within sporting events.

Examine the societal importance of sports.

Understand the concepts of rational recreation and leisure.
Assess the connection between achievement and sports.
Examine the use of sports within broader social venues.

SPT 232 - Sport Psychology

3 credit hours - Three hours weekly; one term.

Explore the field of sport and exercise psychology. Topics include the psychological aspects of competitive and recreational sports with emphasis on current psychological theories and field research. Prereq(s): *PSY 111 or permission of department chair*. Location(s)

Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

Acquire knowledge of the psychological factors that influence participation and performance in sport, exercise, and physical education settings.

Illustrate the various factors that affect involvement in sport.

Assess and appraise the importance of specific psychological factors in different settings, from competitive to recreational sport.

Understand the relevant historical and professional issues in the field of sport psychology.

Appraise the various historical trends that have arisen in the field.

Predict future directions in sport psychology.

Assess important current contributions in the field.

Describe interventions used in sport psychology.

Identify interventions used in specific situations in applied sport psychology.

Develop an understanding of how to construct applied sport psychology interventions.

Describe the means by which to measure the success of interventions.

Explain the issues related to participation in sport and recreational activities.

Describe the potential barriers that might exist in reaching optimal performance.

Develop procedures by which one can avoid impediments to progress in attaining optimal performance.

Demonstrate the knowledge of the various forms of leadership in sport psychology.

Analyze various forms of leadership.

Evaluate the strengths and weaknesses of the different forms of leadership.

Analyze the importance of each form of leadership in various settings.

Demonstrate an ability to effectively set goals.

Describe the major theoretical ideas that involve goal-setting in sports.

Analyze the recent research completed in the area of goal-setting.

Evaluate the various means of measuring goals.

SPT 244 - Sports and Diversity

3 credit hours - Three hours weekly; one term.

Explore the historical and modern-day status of diversity in sports. Assess opportunities available in sports for diverse groups and potential issues that occur during actual involvement. Discuss race, ethnicity, gender, sexual orientation and disability as they relate to sports.

Course Outcomes

Construct a framework by which to understand how diversity issues enter into sports

Organize the various ways in which sports and diversity intersect.

Appraise the significance of the specific ways that diversity and sports intersect.

Elaborate on the affective, behavioral and cognitive characteristics of individuals and groups who participate in sport and athletics.

Categorize the various characteristics of individuals and groups in reference to sports and athletics.

Assess the manner in which society shapes attitudes towards sports and the individuals who are associated with sports.

Appraise the history and evolution of sports culture from the perspective of players, fans, and society as a whole.

Document historical trends as it relates to sports and how it has viewed diversity and culture.

Assess and appraise the progress made in areas of diversity in sports.

Assess the positive and negative aspects of sports within our culture.

Identify areas of sports where diversity impacts the effectiveness or functionality.

Evaluate the opportunities and obstacles created by promoting diversity in sports.

Develop a better understanding of current research topics as it relates to sports and athletics.

Acquaint self with the various areas of research that exist within the area of sports and diversity.

Articulate the importance of various areas of research within the area of diversity in sports.

STEM: Science, Technology, Engineering, Mathematics

STM 213 - Professional Skills for STEM

1 credit hour - Ten hours lecture and five hours directed lab; one term.

Formerly STM 103 - Core Skills for STEM 3 Develop or refresh skills and knowledge required for technical positions within Science, Technology, Engineering, Mathematics (STEM) fields. Focus upon professionalism and critical thinking skills essential to academic and workplace success. Prereq(s): *Successful completion of 12 credit hours of MEC, EET or CTS courses or permission of engineering department chair.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Build a resume that highlights strengths and skills as they relate to a job position description.
2. Plan and organize a job search using various resources to evaluate job requirements and their relationship to one's experience, knowledge, skills, and abilities.
3. Project a professional image throughout the hiring process.
4. Explain general business expectations of employee confidentiality, privacy, workplace safety, and teamwork.
5. Investigate strategies and techniques to increase efficiency in the workplace.

Surgical Technology

SGT 100 - Principles of Surgical Technology 1

4 credit hours - 45 lecture hours and 30 lab hours; one term.

Learn about the surgical environment, identify the role of the surgical technologist, and apply principles of sterile technique to the preoperative phase of surgical patient care. Lab fee \$60. Prereq(s): *Acceptance into the Surgical Technology Program.* Coreq(s): *BIO 223.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Discuss the history of surgical technology, the role of the surgical technologist, and the importance of professional credentials in the healthcare environment.
- Define and diagram the management structure of the surgical services department and physical design of the O.R.
- Discuss the legal, ethical, and moral responsibilities of the surgical team.
- Discuss the needs and care of the surgical patient as a whole person.
- Describe principles of communication and teamwork found in the surgical setting.
- Recognize the principles related to decontamination and the sterilization process.
- Explain principles of asepsis and demonstrate proper sterile technique when performing preoperative surgical duties.
- Demonstrate knowledge of preoperative procedures relevant to the safe care of the surgical patient.

SGT 102 - Principles of Surgical Technology 2

6 credit hours - 45 hours of lecture and 90 hours of laboratory; one term.

Explore and discuss the role of the surgical technologist. Demonstrate the skills necessary to perform their duties as part of the surgical team. Lab fee \$500. Prereq(s): *SGT 100 with a grade of C or better.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Discuss the history of surgical technology and the importance of professional credentials in the health care environment.
- Analyze the legal responsibilities of members of the surgical team.
- Explain the role of technology in health care and its impact in the surgical setting.
- Identify the key elements related to developing a surgical conscience and demonstrate an understanding of how those elements apply to every aspect of professional behavior.
- Demonstrate principles of communication and teamwork found in the surgical setting.
- Identify the needs of the surgical patient throughout the perioperative process.
- Develop an increased awareness of matters related to diversity, equity, and inclusion in the medical and surgical setting.
- Perform a complete mock surgical procedure by implementing the knowledge and skills required to perform in the first scrub role.

SGT 108 - Surgical Procedures 1

4 credit hours - 60 hours of lecture per term.

Learn the basic format and procedures used in the operating room. Includes a step-by-step process to provide the student with a broad knowledge base and the skills needed to perform as a Surgical Technologist. Prereq(s): *SGT 100 and SGT 102 with a grade of C or better.* Coreq(s): *SGT 200.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Analyze the diagnostic and surgical interventions for a patient undergoing an orthopedic procedure.
2. Analyze the diagnostic and surgical interventions for a patient undergoing a cardio-vascular procedure.
3. Analyze the diagnostic and surgical interventions related to a patient undergoing an ophthalmology or ENT procedure.
4. Analyze the diagnostic and surgical interventions related to a patient undergoing an OB-GYN procedure.
5. Analyze the diagnostic and surgical interventions related to a patient undergoing a general surgery procedure.
6. Analyze the diagnostic and surgical interventions related to a patient undergoing a neurosurgical procedure.
7. Analyze the diagnostic and surgical interventions related to a patient undergoing a urology procedure.

SGT 201 - Surgical Technology Clinical

5 credit hours - 240 hours of clinical laboratory per term.

Perform procedures with the surgical team in an operating room environment using a preceptor-based model. Apply the theories and skills learned in previous surgical technology courses to the care of the surgical patient and begin to develop a portfolio of surgical procedures across the specialties. Lab fee \$200. Prereq(s): *SGT 100 and SGT 102 with grades of C or better.* Coreq(s): *SGT 108.* Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Perform perioperative case management duties in an organized and timely manner.
- Demonstrate the ability to apply the principles of asepsis to impeccable practice of sterile technique.
- Demonstrate the ability to apply safety procedures to the safe care of the surgical patient and to the management of the operative field.
- Apply critical thinking and appropriate actions to the intraoperative case management process.
- Perform appropriately as a novice surgical technologist in the first or second scrub role.
- Apply feedback from preceptors, clinical instructors, and self-reflections to improve practice.
- Exhibit positive professional behaviors expected by the surgical technology program and future employers.

SGT 202 - Surgical Procedures 2

4 credit hours - 60 hours of lecture.

Expand skills and knowledge related to procedures in the operating room. Prereq(s): *SGT 108 and SGT 200 with a grade of C or better.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Analyze the diagnostic and surgical interventions for a patient undergoing advanced orthopedic procedures.
2. Analyze the diagnostic and surgical interventions for a patient undergoing advanced cardiothoracic and peripheral vascular procedure.
3. Analyze the diagnostic and surgical interventions for a patient undergoing advanced urology procedures.
4. Analyze the diagnostic and surgical interventions for a patient undergoing advanced general surgery procedures.
5. Analyze the diagnostic and surgical interventions for a patient undergoing advanced neurosurgical procedures.
6. Analyze the diagnostic and surgical interventions for a patient undergoing advanced obstetric and gynecologic procedures.
7. Analyze the diagnostic and surgical interventions for a patient undergoing advanced ophthalmic or otorhinolaryngologic procedures.
8. Analyze the diagnostic and surgical interventions for a patient undergoing advanced oral or maxillofacial procedure.
9. Analyze the diagnostic and surgical interventions for a patient undergoing advanced plastic or reconstructive procedure.

SGT 205 - Surgical Technology Clinical 2

5 credit hours - 188 hours of clinical laboratory per term; 8 weeks.

Formerly SGT 205 Practicum 2 for Surgical Technology Apply the theories and content learned in previous surgical technology courses. Continue to build on the knowledge base and the skills needed to perform as a surgical technologist in all areas of the surgical setting. Lab fee \$300. Clinical fee \$150. Prereq(s): *SGT 108 and SGT 200 with a grade of C or better*. Coreq(s): *SGT 202*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate preparation of the operating room for assigned surgical procedures.
2. Demonstrate the preoperative care of a patient for assigned surgical procedures.
3. Demonstrate the intra-operative care of a patient for assigned surgical procedures.
4. Demonstrate the postoperative care of a patient for assigned surgical procedures.
5. Describe each behavior as it relates to the role of the surgical team member.
6. Integrate information and knowledge for application to each patient situation.
7. Locate and evaluate information using the latest technology available.

SGT 206 - Surgical Technology Clinical 3

5 credit hours - 188 hours of clinical laboratory per term; 8 weeks.

Formerly SGT 206 Practicum 3 for Surgical Technology Continuation of SGT 205. Apply the theories and content learned in previous surgical technology courses. Continue to build on the knowledge base and the skills needed to perform as a surgical technologist in all areas of the surgical setting. Lab fee \$300. Clinical fee \$150. Prereq(s): *SGT 205 with a grade of C or better*. Coreq(s): *SGT 202 and SGT 209*. Location(s) Typically Offered: Off Campus (OF) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate preparation of the operating room for assigned surgical procedures.
2. Demonstrate the preoperative care of a patient for assigned surgical procedures.
3. Demonstrate the intra-operative care of a patient for assigned surgical procedures.
4. Demonstrate the postoperative care of a patient for assigned surgical procedures.
5. Describe each behavior as it relates to the role of the surgical team member.
6. Integrate information and knowledge for application to each patient situation.
7. Locate and evaluate information using the latest technology available.

SGT 208 - Perspectives of Surgical Technology

2 credits - 30 hours of lecture; eight weeks

Prepare for entry into the workforce as surgical technologists. Prepare for and take the national Certified Surgical Technologist (CST) exam. Prereq(s): *SGT 108 and SGT 201 with grades of C or better*. Coreq(s): *SGT 202 and SGT 206*. Location(s) Typically Offered: Arundel Mills (AM) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Discuss current issues and trends in the profession of surgical technology.
- Identify factors that will contribute to development into a professional surgical technologist.
- Analyze the relationship between accountability and liability for one's actions as a surgical technologist.
- Prepare a professional resume and exhibit appropriate interview skills.
- Sit for the national Certified Surgical Technologist exam (CST).

SGT 209 - Surgical Technology Perspectives

1 credit hour - 15 hours of lecture; eight weeks.

Analyze current issues and trends that impact the profession of surgical technology. Prereq(s): *SGT 108 and SGT 200*. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Prepare for transition from the role of student to that of certified surgical technologist.

Define the role of the Professional Surgical Technologist in the current health care setting.
Develop and implement a plan for preparing for the certification exam.
Identify key components of performance appraisal.

Identify factors that will assist the surgical technologist in reaching the highest level of potential.

Prepare a resume, cover letter and follow up letter with documentation of accomplishments.
Identify techniques for job interviewing and interview preparation.
Identify options for advanced education and certification in surgical technology.

Analyze the relationship between accountability and liability for one's actions in professional surgical technology.

Discuss current surgical technology workplace issues including occupational health and safety issues.
Identify strategies to promote patient safety in surgical technology.

Discuss current issues and trends in the profession of surgical technology.

Discuss current trends in medicine as they impact surgical technology.
Identify issues related to the role of the novice surgical technologist.
Acquaint self with the current economic/political climate, which impacts the profession.
Analyze practice situations which involve the application of selected ethics principles and utilization of an ethical decision-making framework in surgical technology practice.

Theater Arts

THA 111 - Introduction to Theater

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Explore various forms of modern theater in Western culture from expansive Broadway-style productions to low-budget, high-demand local community theater. Identify the fundamental traits of theatrical performance, including those of serious drama, comedy, musical theater, and other genres. Explore professional acting, directing, design, and other theatrical careers by viewing and discussing a combination of live and prerecorded performances. Note: *Students must attend two live performances outside class time.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Describe the strengths and weaknesses of a live theatrical performance from the perspective of an audience member;
2. Appraise the contributions made by the creative team of a theatrical production: the playwright, the director, the actor, the musical director, the choreographer, and the various designers - scenic, lighting, sound, projections, costumes, and stage properties;
3. Identify plays from a variety of time periods and analyze the portrayal of historical and modern societal values;
4. Outline the range of theatrical performances found in the United States, ranging from hobbyist community theater to fully unionized commercial productions;
5. Discuss the qualities which make a theatrical performance enjoyable and satisfying.

THA 115 - Introduction to Children's Theater

3 credit hours - Three hours weekly; one term.

Introduction to the special world of children's theater where adults perform plays for children. Explore various performance and production techniques. Opportunity to participate in presentation of a play for an audience of children. Whenever possible, field trips take students to see examples of children's theater.

THA 116 - Movement for Actors

3 credit hours - Three hours weekly; one term.

Practical study of movement fundamentals, body awareness, physical intention and nonverbal communication related to the beginning acting process. Principles of the use of time, weight, space and energy and their application are explored along with an introduction to somatics, Laban effort/shape theory and contact improvisation. This course is cross-listed and identical in both Dance and Theater. Prereq(s): *THA 132 or permission of department chair or coordinator of dance.* Crosslisted: *Also offered as DAN 116; credit is not given for both THA 116 and DAN 116.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Demonstrate increased body awareness and expressive qualities.

Implement acquired knowledge of one's body to become a more effective, expressive tool on stage.

Employ the movement skills and awareness of one's limitations to the best of one's ability.

Combine efforts on creative process with regards to accepting input, meeting goals and respectfully interacting with peers.

Employ acquired knowledge to assigned in-class projects with peers

Exchange views and opinions regarding choices made in the given assignments

Utilize learned creative movement methods to best suit given situations.

Demonstrate an elementary awareness and practical application of Laban Effort/Shape Theory to the acting process.

Utilize effort/shape terms to describe the feeling that is required of the movement.

Demonstrate the directed movement with the knowledge of the Laban terminology in movement projects.

Demonstrate the ability to communicate effectively without using vocal accompaniment/text.

Apply movement phrases to accommodate the needs of the scene.

Utilize the body or bodies on stage to convey the message by movement rather than words.

Exchange thoughtful, constructive feedback with peers

Accept the friendly feedback from peers in the class.

Convey thoughts and observations to peers in class.

Develop a working vocabulary of movement terms to assist the acting process.

Acquaint self with the vocabulary taught in the classroom...Laban Effort/Shape terminology and other helpful, descriptive terms.

Practice verbal description and motor skills.

Increase range of motor skills, knowledge of motor applications and the proper terminology.

Demonstrate ability to create short movement studies that embody each topic covered in class.

Administer acquired knowledge and practice scenarios in class.

Utilize movement patterns effectively.

THA 121 – Stagecraft

3 credit hours - Two hours of lecture and two hours of laboratory weekly; one term.

Explore the aspects of backstage theatrical work in a lecture/laboratory setting. Exercise modern theatrical construction and electrical standards. Implement operational procedures, protocols, and techniques for running theatrical production crews in scenery, lighting, audio, projections, props, and paints. Complete individual execution assignments from each of the various backstage disciplines.

Engage in group research and presentation assignments on traditional theatrical conventions. Lab fee \$60. Location(s) Typically

Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Apply proper safety procedures and equipment in a theatrical production environment.

Analyze existing theatrical drafting and generate new drafting.

Implement fundamental scenic construction techniques in both wooden and metal materials.

Apply practical electrical theory for theatrical purposes in scenery, lighting, audio, and video.

Compose programming for theatrical software systems and consoles running lighting, audio, and video projection.

Identify and apply fundamental scenic artistry painting techniques in appropriate contexts.

Evaluate the success or failure of a theatrical production's technical aspects in order to inform future decision-making.

THA 122 - Introduction to Stage Design and Lighting

3 credit hours - Three hours weekly; one term.

Study of basic drawing and drafting techniques needed to create stage designs and an introduction to design of stage scenery. Students also study stage lighting, including kinds of stage fixtures, use of color and planning of stage lighting. Stagecraft (THA 121) is not a prerequisite for this course. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

THA 125 - Script Analysis

3 credit hours - Three hours weekly; one term.

Gain an introduction students to the skills and techniques required to read and analyze a play text. Focuses on the critical information that the text provides to inform the work of directors, designers, performers and technicians. This course provides a foundation for further study of the art form. Prereq(s): ENG 101/ENG 101A. Location(s) Typically Offered: Arnold Main Campus (MC) and Online

(OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

Appraise the script

- Read the script as a play
- Determine the historical aspects of the play
- Determine the political aspects of the play

Identify themes and necessities for production

- Discover the themes and physical necessities in a script
- Analyze the particular themes and physical items in the play

Explore the potential effect on an audience

- Correlate the historical realities of the period
- Apply the discovered realities to modern society
- Access the effect that these realities will have on an audience

Ascertain the most effective approach to the production of a particular script

- Interpolate the modern and historical aspects of the play and apply it to the script
- Estimate the effects of multiple approaches to a script

Convey the necessities and desired outcome of a particular approach to the script

- Defend the approach and outcomes in written form
- Defend the approach and outcomes verbally

THA 132 - Acting 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study the acting process through exercises, theatre games and performance. Explore and gain proficiency in the Stanislavski method of acting. Learn character analysis and rehearsal techniques in preparation for required in-class presentation of short scenes from modern play scripts. Lab fee \$15. Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Condition the body and voice for performance with relaxation, strength, and flexibility.
2. Use exercises to increase sensory awareness, observation and imagination.
3. Prepare a characterization using improvisation techniques.
4. Analyze a character in a published play script.
5. Plan, prepare, and perform a memorized monologue from a play script in character. Work with a scene partner(s) to present a duo and, or a small group scene.
6. Critically analyze his/her work and the performance of others.

THA 133 - Acting 2

3 credit hours - Three hours weekly; one term.

Build upon the knowledge and skills acquired in THA 132; progress to advanced scene study. Prepare character analysis and present multiple monologues and scenes from modern and experimental plays in order to gain increased actor control. Encounter and investigate Shakespearean technique for the actor. Lab fee \$15. Prereq(s): *THA 132 or permission of department chair*. Note: *THA 133 may be repeated once for credit with permission of department chair and will appear on student records as THA 134. (Repeat credit may not transfer.)* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

THA 134 - Acting 3

3 credit hours - Three hours weekly; one term.

Build upon the knowledge and skills acquired in THA 132; progress to advanced scene study. Prepare character analysis and present multiple monologues and scenes from modern and experimental plays in order to gain increased actor control. Encounter and investigate Shakespearean technique for the actor. Lab fee \$15. Prereq(s): *THA 132 or permission of department chair*. Note: *THA 133 may be repeated once for credit with permission of department chair and will appear on student records as THA 134. (Repeat credit may not transfer.)* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

THA 135 - Applied Theater

1 credit hour - One hour of individual instruction weekly; one term.

Receive individualized instruction in theater for either the actor, designer or technician. Course may be repeated for a total of 3 credits.

Lab fee \$250. Prereq(s): *THA 121 or THA 122 or THA 132 or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Assess acting strengths and weaknesses.

- Evaluate vocal range, strength, flexibility.
- Accept evaluation offered by instructor/ tutor.
- Evaluate physical range, strength, flexibility.
- Accept evaluation of instructor/ tutor.
- Evaluate ability to analyze both characters and plays.
- Examine prior success with texts of varying style and tone.

Develop proficiency in exercises which strengthen performance weaknesses.

- Develop a varied repertoire of strength-building exercises.
- Develop endurance in personal workout.
- Develop self-evaluation skills to measure improvement.

Select monologues for development that showcase casting potential.

- Increase knowledge of available texts.
- Work with instructor to locate competitive audition materials.
- Self-evaluate performance strength to select showcase cuttings.

Develop a character in rehearsal or prepare new selections for public performance.

- Understand the super objective of the play and the objective of the character.
- Build believable physical/ vocal characteristics.
- Develop layers of characterization.
- Polish performance for audience enjoyment.

Develop (or enhance) audition portfolio suited to personal performance goals.

- Find contrasting selections to include in portfolio.
- Find currently successful audition selections to develop.

Prepare or revise resume.

- Edit background experience to provide successful resume.
- Prepare effective presentation of background in written document.

THA 180 - Play Production

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Participate on one of the crews of a fully realized theatrical production and explore a non-profit theatre company's production process. Ascertain a production's needs, generate a plan to complete your crew's requirements, and operate the technical aspects of the performances in a safe, feasible, and punctual time line prior to the opening performance. The course may be repeated up to three times with different content. (Repeat credits may not transfer.)

Permission of department chair needed to repeat this course. Repeated course will appear on student records as THA 181, THA 182 and THA 183 and will not be considered a general education humanities course. Note: *Industry and four-year university standards require students to work on different tasks such as management, scenery, lighting, sound, costumes, projections, and other potential professional disciplines. In accordance with those standards, each semester's production will focus on a variety of these tasks. Students must commit to time outside of class for rehearsals, build calls, production meetings, and performances outside of regular class time. Students are encouraged to meet with the instructor prior to enrolling to identify scheduling conflicts.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe and apply proper safety procedures and equipment in a theatrical production environment.
- Deduce a production's needs from both its script and production design, and determine the feasibility of realizing them onstage in front of a live audience.

Describe all, and produce at least one, of the standard production disciplines of theatrical production, including, but not limited to, stage and production management, scenery, props, lighting, sound, costumes, and/or projections.
Appraise available personnel, time, and physical and financial resources, and formulate an action plan for one or multiple standard production disciplines based on that appraisal.
Improvise solutions to challenges that arise with scant time to develop and test multiple strategies.
Evaluate the success or failure of a theatrical production's technical aspects in order to inform future decision-making.

THA 181 - Play Production

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

Participate on one of the crews of a fully realized theatrical production and explore a non-profit theatre company's production process. Ascertain a production's needs, generate a plan to complete your crew's requirements, and operate the technical aspects of the performances in a safe, feasible, and punctual time line prior to the opening performance. Course may be repeated up to three times with different content (repeat credits may not transfer). Permission of department chair needed to repeat this course. Repeated course will appear on student records as THA 181, THA 182 and THA 183 and will not be considered a general education humanities course. Note: *Industry and four-year university standards require students to work on different tasks such as management, scenery, lighting, sound, costumes, projections, and other potential professional disciplines. In accordance with those standards, each semester's production will focus on a variety of these tasks. Students must commit to time outside of class for rehearsals, build calls, production meetings, and performances outside of regular class time. Students are encouraged to meet with the instructor prior to enrolling to identify scheduling conflicts.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Describe and apply proper safety procedures and equipment in a theatrical production environment.
Deduce a production's needs from both its script and production design, and determine the feasibility of realizing them onstage in front of a live audience.
Describe all, and produce at least one, of the standard production disciplines of theatrical production, including, but not limited to, stage and production management, scenery, props, lighting, sound, costumes, and/or projections.
Appraise available personnel, time, and physical and financial resources, and formulate an action plan for one or multiple standard production disciplines based on that appraisal.
Improvise solutions to challenges that arise with scant time to develop and test multiple strategies.
Evaluate the success or failure of a theatrical production's technical aspects in order to inform future decision-making.

THA 182 - Play Production

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

Participate on one of the crews of a fully realized theatrical production and explore a non-profit theatre company's production process. Ascertain a production's needs, generate a plan to complete your crew's requirements, and operate the technical aspects of the performances in a safe, feasible, and punctual time line prior to the opening performance. Course may be repeated up to three times with different content (repeat credits may not transfer). Permission of department chair needed to repeat this course. Repeated course will appear on student records as THA 181, THA 182 and THA 183 and will not be considered a general education humanities course. Note: *Industry and four-year university standards require students to work on different tasks such as management, scenery, lighting, sound, costumes, projections, and other potential professional disciplines. In accordance with those standards, each semester's production will focus on a variety of these tasks. Students must commit to time outside of class for rehearsals, build calls, production meetings, and performances outside of regular class time. Students are encouraged to meet with the instructor prior to enrolling to identify scheduling conflicts.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Describe and apply proper safety procedures and equipment in a theatrical production environment.
Deduce a production's needs from both its script and production design, and determine the feasibility of realizing them onstage in front of a live audience.
Describe all, and produce at least one, of the standard production disciplines of theatrical production, including, but not limited to, stage and production management, scenery, props, lighting, sound, costumes, and/or projections.
Appraise available personnel, time, and physical and financial resources, and formulate an action plan for one or multiple standard production disciplines based on that appraisal.

Improvise solutions to challenges that arise with scant time to develop and test multiple strategies.
Evaluate the success or failure of a theatrical production's technical aspects in order to inform future decision-making.

THA 183 - Play Production

3 credit hours - One hour of lecture and four hours of laboratory weekly; one term.

Participate on one of the crews of a fully realized theatrical production and explore a non-profit theatre company's production process. Ascertain a production's needs, generate a plan to complete your crew's requirements, and operate the technical aspects of the performances in a safe, feasible, and punctual time line prior to the opening performance. Course may be repeated up to three times with different content (repeat credits may not transfer). Permission of department chair needed to repeat this course. Repeated course will appear on student records as THA 181, THA 182 and THA 183 and will not be considered a general education humanities course. Note: *Industry and four-year university standards require students to work on different tasks such as management, scenery, lighting, sound, costumes, projections, and other potential professional disciplines. In accordance with those standards, each semester's production will focus on a variety of these tasks. Students must commit to time outside of class for rehearsals, build calls, production meetings, and performances outside of regular class time. Students are encouraged to meet with the instructor prior to enrolling to identify scheduling conflicts.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Describe and apply proper safety procedures and equipment in a theatrical production environment.
- Deduce a production's needs from both its script and production design, and determine the feasibility of realizing them onstage in front of a live audience.
- Describe all, and produce at least one, of the standard production disciplines of theatrical production, including, but not limited to, stage and production management, scenery, props, lighting, sound, costumes, and/or projections.
- Appraise available personnel, time, and physical and financial resources, and formulate an action plan for one or multiple standard production disciplines based on that appraisal.
- Improvise solutions to challenges that arise with scant time to develop and test multiple strategies.
- Evaluate the success or failure of a theatrical production's technical aspects in order to inform future decision-making.

THA 185 - Children's Theater Ensemble

1 credit hour - Three hours weekly; one term.

Rehearsal and performance of dramatic literature aimed at youth audiences. Programs are prepared for both on and off-campus presentations. Students must audition or interview for slots in class during the first week of the term in which they desire to enroll. Course may be repeated a total of two credit hours.

Course Outcomes

Determine necessary tasks in order to produce a touring ensemble.

- Acquire the script/reading used for the production
- Access the needs of the play
- Access the restrictions of the format

Adapt the script and technical elements to fit the restrictions of touring

- Ascertain the necessity of each item
- Determine which elements can be reduced/removed
- Prioritize the order for construction

Construct the technical elements for the show

- Build scenic pieces

Assemble the show and rehearse

- Assemble the technical elements
- Rehearse the play with technical elements

Interact with the audience

- Perform the show in schools
- Discuss play with audience
- Evaluate the play with the audience

Evaluate the success of the production

- Draw conclusions about success/failure of each show

Accept responsibility for successes/failures
Apply lessons learned

THA 240 - Stage Makeup for Live Entertainment

3 credit hours - Three hours lecture weekly; one term.

Delve into the art of makeup for the stage by exploring the fundamental concepts of manipulating the contours of facial anatomy for live entertainment. Compare techniques for creating highlight and shadow, as well as various methods of modeling the face using a variety of 2D and 3D materials. Prepare new and exciting designs for characters born from the pages of a script, and execute those designs in custom-built makeup facilities, including historical figures, stylized characters, fantasy characters, animals, and characters of all ages. Lab fee \$100. Note: *Lab fee of \$100 covers the cost of a makeup starter kit, as well as other consumable course supplies.* Location(s) Typically Offered: Arnold Main Campus (MC)

Course Outcomes

Upon successful completion of this course, the student will be able to:

Articulate the basic principles of stage makeup and its application.

Distinguish differences and similarities between their own facial structure and a given makeup design in order to apply it convincingly for the stage.

Plan for makeup designs for the stage based on analysis of a given script.

Execute makeup designs in practical settings under conditions germane to the industry, including time and budget constraints.

THA 260 - Theater Live and Alive in Great Britain

3 credit hours -

A travel-study course that provides first-hand experience in the British theatrical scene, including London commercial and fringe theaters, subsidized Royal National Theatre and the Royal Shakespeare Company and regional professional theater. An 18-day visit to England will include appropriate tours and seminars with theater professionals as well as theater tickets to performances in London, Stratford-on-Avon and Chichester. Lecture attendance, research paper, final exam and tour fee are required.

THA 280-299 - Special Topics in Theater

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An in-depth examination of one aspect of theater or theatrical production. A maximum of eight credits earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should check with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Some special topics may have a course prerequisite and/or additional lab fees. Refer to the current schedule of classes for term offerings. Lab fees \$5-\$250.

Veterinary Science Technology

VST 111 - Introduction to Veterinary Science Technology

3 credit hours - Three hours weekly; one term.

Survey of basic practices and principles of veterinary science.

VST 115 - Animal Diseases

3 credit hours - Three hours weekly; one term.

Introduction to disease and the pathological state in animals. Major types of diseases are classified, and diseases that relate to each type of animal are outlined.

World Languages: American Sign Language

ASL 111 - American Sign Language 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Survey current systems of manual communications with an emphasis on American Sign Language. Focus on the manual alphabet, fingerspelling and vocabulary acquisition as well as on syntactical and grammatical structures that govern the language. Upon completion, students will have studied approximately 500 lexical sign items and be able to communicate in a rudimentary manner with deaf and hard-of-hearing children and adults. Location(s)

Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Differentiate eyebrow placements;
- Utilize space and spatial references;
- Learn and use approximately 500 vocabularies;
- Learn numbers from 1 to 100;
- Confirm and correct information;
- Retell information and stories;
- Incorporate Deaf cultural and behavioral norms;
- Identify local Deaf residential schools and Gallaudet University;
- Identify signs for local cities and places;
- Identify and discuss cultural differences.

ASL 112 - American Sign Language 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon vocabulary and sign skills acquired in American Sign Language 1. Provide videotaped sessions with feedback and fluency in the language. Become acquainted with some of the more complex grammatical structures in American Sign Language and increase vocabulary size to approximately 1,000 signs.

Prereq(s): *ASL 111 with a grade of C or better or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

- Differentiate eyebrow placements.
- Use space and spatial references.
- Use approximately 1,000 signs.
- Use numeral incorporation.
- Confirm and correct information.
- Retell information and stories/events.
- Describe people and attribute personalities.
- Give and confirm directions.
- Make requests and give information.
- Incorporate opinions and provide suggestions.

ASL 120 - Introduction to the American Deaf Community

3 credit hours - Three hours weekly; one term.

This course meets the Diversity Requirement. Learn about deaf culture, history, heritage, American Sign Language and the deaf community in the United States and abroad. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Understand the general themes and issues in the realms of Deaf history, Deaf Culture and American Sign Language (ASL).

- Be able to summarize important themes in the realm of the Deaf Community
- Understand historical events that continue to impact the Deaf communities today.
- Appreciate the continual impact of oralism.
- Understand the contrast in the Deaf communities in America and other countries.

Develop an understanding of the recorded history of Deaf people and the basic ideas of ASL.

- Distinguishes Biblical views of Deaf people in the Old and New Testaments.
- Contrasts Socrates and Platos views of Deaf people.
- Recognizes historical attempts of fixing, saving and educating the Deaf people in medical, religious and educational fields.
- Explores communication systems: oralism, Manually Coded English, Cued Speech
- Reviews the history and formation of standardized ASL.

Appreciates the contribution of Dr. William Stokoe and his contribution to ASL.
Reviews the basic linguistics of ASL: phonology, morphology, and syntax.

Understand issues in the Deaf communities and ASL in the broader social context.

Describes the views upon Deaf people by people in different fields.
Reviews the history of Deaf education and the merger with the medical field.
Examines collective activism that has enhanced and increased accessibility and rights for Deaf people.

Understand deaf studies by completing an expository paper on one of the following: Rev. Thomas H. Gallaudet, Milan 1880 (oralism) or the Deaf President Now Movement.

Enhance ability to utilize library and internet-based resources.
Further develop the ability to express oneself in written form.

Develop appreciation for deaf culture through actual participation in a Deaf event in the MD/DC/VA area to observe cultural value and norms.

Explores the Deaf community for evidence of cultural norms, values, arts, literature and/or current trends.

ASL 121 - Deaf Culture

3 credit hours - Three hours weekly; one term.

Discuss historical and contemporary perspectives of the American deaf culture using a socio-cultural model. Analyze evolving cultural definitions and discuss the intersection of American and deaf cultures. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Examine general themes and issues in the realms of Deaf history, Deaf culture and American Sign Language (ASL).

Summarize important themes in the realm of the Deaf community and its cultural norms and values.
Recognize historical events that continue to impact the Deaf communities today.
Analyze technological impacts on Deaf culture.
Review the continuous impact of oralism.
Contrast Deaf culture in America and other global cultures.

Explore history of Deaf people and their cultural norms and values.

Review notable Deaf people and schools for the Deaf and their hand in the formation of Deaf culture.
Explain the rise and demise of Deaf social clubs.
Reviews the Deaf-World: churches, newspapers, companies, etc.

Explore issues in the Deaf communities and ASL.

Define Deaf culture.
Discuss the collective Deaf experience with their family and interactions with the world.
Examine and interpret meanings within Deaf jokes and stories.
Define audism and linguisticism and recognize such scenarios.
Differentiate between Deaf and deaf.

Analyze diversity within the Deaf community.

Explore diversity within the Deaf community and how diversity is accepted and rejected.
Identify additional disabilities within the Deaf community.
Discuss why Deaf people consider themselves as a "linguistic minority" rather than disabled.

Write one or more expository papers related to Deaf culture.

Utilize library and internet-based resources.
Demonstrate ability to express oneself in written form.

Participate in a Deaf event in the MD/DC/VA area to observe Deaf culture (values, norms, etc.)

Explore the Deaf community for evidence of cultural norms, values, arts, literature and/or current trends.

ASL 140 - Introduction to Interpreting

3 credit hours - Three hours weekly; one term.

Learn basic principles, practices and history of interpreting for the Deaf. Discuss the logistics and theories of interpreting environments and settings, regulatory and legislative issues, resources, the RID Code of Professional Conduct tenets and certification exams. Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Examine general themes and issues in the realms of Deaf History, Deaf Culture, American Sign Language (ASL), and Interpreting.

Summarize needs and communication facilitation in the realms of the Deaf community and interpreting.
Recognize the needs of interpreting that continue to impact the Deaf communities today.
Review the continual impact of audism and stereotypes of the Deaf community.
Discuss the roles and conducts of interpreters.

Discuss the complexity of interpreting.

Discuss interpreting theories and models and their application in specialized settings of interpreting.
Identify the uniqueness of mediating between English and ASL and other languages.
Discuss codes of professional conduct.

Explore history of interpreting in America and Canada.

Discuss history of interpreting before the establishment of agencies and certifications.
Contrast between Registry of Interpreters for the Deaf (RID) and Association of Visual Language Interpreters of Canada (AVLIC).

Explore issues in the Deaf communities and ASL.

Describe the views on Deaf people by people in different fields.
Examine oppression and stereotypes of the Deaf community.
Examine cultural views and affiliations and their significances for interpreters.
Discuss the significance of the codes of conduct and their impact with Deaf clients and third parties.

Write one or more expository papers related to interpreting topics.

Utilize library and internet-based resources.
Demonstrate ability to express oneself in written form.

Participate in a Deaf event in the MD/DC/VA area to observe interpreting.

Explore the interpreting process in the Deaf community.

ASL 150 - Intralingual Interpreting

3 credit hours - Three hours weekly; one term.

Develop intralingual skills (English to English) in preparation for developing interlingual skills (English to ASL/ASL to English) by focusing on cognitive development in abstracting, summarizing, paraphrasing, memorizing and multi-tasking. Focus on semantics and restructuring that are suitable for ASL or English as the target language. Prereq(s): *ASL 114 and ASL 140 with a grade of C or better or permission of department chair.*

Course Outcomes

Examine general themes and issues in the realm of American Sign Language (ASL) and the Deaf communities.

Explore issues in the Deaf communities.
Explore the interpreting issues in the Deaf communities.
Distinguish ASL as a language from artificial manual/communication systems.

Explore the mechanisms of learning and language acquisition.

Distinguish between signing word-for-word as opposed to conveying concepts.
Interpret source materials.
Differentiate visual forms.
Create visual memories and cues.

Explore trends and norms in social settings.

Describe what are norms and values in Deaf culture.
Explore the etiquette of interrupting and joining a signed conversation.
Explore the etiquette of repetition.

Explore areas of language and response.

Explore responses by confirming, correcting, and giving appropriate reactions.
Explore repetition, paraphrasing, summarizing, and pattern inference.

Explore the areas of language and expression.

Explore language by role shifting, sharing stories, information sharing, and rules explanation.
Explore non-manual markers in ASL.

Explore retelling information.

Create visual forms and cues.
Examine tools of repetition.

Explore and examine in constructive feedback to peers.

Review peers' interpreting skills

Explore additional information about cultural norms and values in the Deaf communities.

Attend Deaf events that are interpreted.

Observe interpreting processes.

ASL 210 - American Sign Language 3

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build on skills learned in American Sign Language 2, adding more complex ASL grammatical features and vocabulary, short stories, narratives and dialogues. Learn discourse skills including description of general surroundings, appropriate sequencing, temporal aspects and conditionals. Learn about the deaf community and deaf culture. Prereq(s): *ASL 112 with a grade of C or better or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Distinguish between ASL and English-influenced sentence structures.

Distinguish between signing word for word and concepts.

Identify regional variations of signs.

Describe some norms and values in the Deaf community.

Differentiate responses with confirmation, correction, agreement, and disagreement.

Differentiate between complaining, expressing concerns, and making suggestions and requests.

Provide constructive criticism of peers' signing skills.

Identify objects by their size, texture, and other features.

ASL 211 - American Sign Language 4

3 credit hours - Three hours weekly; one term.

Build upon the skills learned from ASL 210 American Sign Language 3, utilizing two to three role shifts, anecdotes, information sharing and rules explanation. Define and describe settings, and the function of objects, processes, and cause and effect. Discuss cultural norms and values of the deaf community. Prereq(s): *ASL 210 with a grade of C or better.* Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Utilize role shifting while retelling dialogues.

Utilize spatial agreement between locations, classifiers, and time.

Elaborate descriptions, thoughts, and reasons.

Organize information that introduces "the big picture" first.

Analyze and compare cultural, driving, and game rules.

Utilize classifiers and conditional phrases for rule explanation.

Incorporate reactions and opinions in narratives.

Provide feedback to peers on sign production and grammatical structures.

Improve spatial perceptions based on points of view.

ASL 212 - American Sign Language 5

3 credit hours - Three hours weekly; one term.

Evaluate skills learned from American Sign Language 4 and utilize complex constructs, processes and settings. Construct dialogues about finances, health, multiple role shifts, longer stories and narratives, and hypotheticals. Examine cultural attitudes in the deaf community. Prereq(s): *ASL 211 with a grade of C or better or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Examine general themes and issues in the realm of American Sign Language (ASL) and the Deaf communities.

Distinguish between appropriate ASL grammatical structures and English-influenced structures.

Summarize personal events by using diamond-structure dialogue format.

Explore the mechanisms of learning and language acquisition.

Distinguish between signing word-for-word as opposed to conveying concepts.

Explore learning new vocabulary with using activities to prepare for real-life application.

Recognize the constant evolution of languages, including ASL.

Explore trends and norms in social settings.

Describe what are norms and values in Deaf culture.

Contrast conformity and independence.

Review components of attitudes and how they are perceived in the Deaf and hearing communities.

Explore areas of language and response.

Explore responses by confirming, correcting, and giving appropriate reactions.

Explore appropriate reactions.

Explore the areas of language and expression.

Explore language by role shifting.

Explore discourse with setting description, object description and function, and processes.

Explore language through finances and numbers.

Compare translations and equivalencies in languages.

Explore the art of retelling stories.

Examine personal stories.

Review the key elements.

Review strategies in adaptation.

Explore and examine in constructive feedback to peers.

Review peers' storytelling.

Examine in providing structured feedback.

Explore additional information about cultural norms and values in the Deaf communities.

Participate in Deaf events for real-life applications.

Examine and explore the Deaf communities for evidence of cultural norms and values.

ASL 213 - Comparative Linguistics: American Sign Language and English

3 credit hours - Three hours weekly; one term.

Explore the basic concepts of American Sign Language linguistics in phonology, morphology, syntax, semantics and discourse structures as compared to English. Develop sign variations as a result of gender, race, geography, social class and language acquisition. Prereq(s): *ASL 210 with a grade of C or better or permission of department chair.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Define key terms related to language and linguistics.

Compare grammatical and linguistic differences between English and ASL.

Compare grammatical and linguistic differences between ASL and communication systems.

Examine sample signs in Black ASL, Hawaiian ASL, and Indigenous sign languages.

Experiment with the Stokoe notation system and ASL.

Discuss and examine sign/regional variations of ASL.

Examine natural evolution of signs.

Review ASL linguistics with discourse analyses.

World Languages: Arabic

ARB 111 - Elementary Arabic 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Focuses on the fundamentals of the Modern Standard Arabic language including verb conjugation; writing Arabic script; basic sentence structure, grammar and the use of Arabic measures; basic vocabulary; past, present and future negation; use of prepositions. The course places equal emphasis on speaking, writing and reading Modern Standard Arabic; will place strong emphasis on pronunciation and fluency and will include a brief introduction to Arabic customs and culture. This course is not designed for persons who have experience with the Arabic language. Note: *Not for*

native speakers. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and details about familiar topics in novice-low level written and spoken conversations and texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced or memorized words, phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced or memorized words, phrases, and simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-low level writing and speaking prompts.
- Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Arabic-speaking cultures.

ARB 112 - Elementary Arabic 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Focuses on intermediate level Modern Standard Arabic vocabulary, translation, transcription, grammar and sentence structure. The course places equal emphasis on speaking, writing and reading and will place a strong emphasis on conversation, and the defining of vocabulary in context through the translation and discussion of Arabic newspaper articles, radio and television broadcasts and contemporary Arabic literature. Prereq(s): *ARB 111 or one year of high school Arabic or permission of department chair.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and some pieces of information in novice-mid level written and spoken conversations about familiar topics and short informational or fictional texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced, memorized, and original phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced, memorized, and some original phrases and simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-mid level writing and speaking prompts.
- Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Arabic-speaking cultures.

ARB 211 - Intermediate Arabic 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge acquired in ARB 112. Enhance understanding of basic pronunciation and grammar necessary for reading, writing and conversing in Arabic. Prereq(s): *ARB 112 or two years of high school Arabic or permission of department chair.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and key information in novice-high level short, straightforward written and spoken conversations and informational and fictional texts.
- Request and provide information in conversations on familiar topics by creating simple sentences and asking appropriate follow-up questions.
- Present personal information about life, activities, and events, using simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-high level writing and speaking prompts.
- Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Arabic-speaking cultures.

ARB 212 - Intermediate Arabic 2

3 credit hours - Three hours of lecture weekly; one term.

Build upon knowledge acquired in ARB 211. Learn vocabulary and grammar for the purpose of reading, writing and discussing aspects of Arabic-speaking cultures. Prereq(s): *ARB 112 or three years of high school Arabic or permission of department chair.*

Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the main idea and flow of events expressed in various time frames in intermediate-low level conversations, discussions, and paragraph-length fictional texts.

Exchange information in conversations on familiar topics and some researched topics, creating sentences and series of sentences and asking a variety of follow-up questions.

Present a variety of familiar topics and some concrete research topics, using sentences and series of connected sentences through spoken and written language.

Combine a variety of grammar structures and vocabulary to respond to a range of intermediate-low level writing and speaking prompts.

Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Arabic-speaking cultures.

World Languages: Chinese

CHI 111 - Elementary Chinese 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Introduction to spoken Mandarin Chinese and to the written Chinese language. Emphasis will be on spoken Chinese pronunciation and tones, mastery of Pinyin romanization, elementary sentence structure and everyday vocabulary. Approximately 150 Chinese characters are covered. Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the main idea and details about familiar topics in novice-low level written and spoken conversations and texts.

Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced or memorized words, phrases, simple sentences, and questions using correct tones.

Present information on familiar and cultural topics using a variety of practiced or memorized words, phrases, and simple sentences through spoken and written language.

Combine a variety of grammar structures and vocabulary to respond to a range of novice-low level writing and speaking prompts using Chinese characters.

Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Mandarin-speaking cultures.

CHI 112 - Elementary Chinese 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Practice speaking Mandarin Chinese and reading the written Chinese language, building on skills gained in CHI 111. Master Pinyin romanization, the four tones, and a basic vocabulary. Identify and write approximately 320 Chinese characters. Read simple sentences composed of these characters. Prereq(s): *CHI 111 or one year of high school Chinese or permission of department chair.* Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the main idea and some pieces of information in novice-mid level written and spoken conversations about familiar topics and short informational or fictional texts.

Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced, memorized, and original phrases, simple sentences, and questions using correct tones.

Demonstrate mastery of the pinyin romanization system.

Present information on familiar and cultural topics using a variety of practiced, memorized, and some original phrases and simple sentences through spoken and written language.

Combine a variety of grammar structures and vocabulary to respond to a range of novice-mid level writing and speaking prompts using Chinese characters.

Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Mandarin-speaking cultures.

CHI 211 - Intermediate Chinese 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Study vocabulary and grammar to develop speaking, listening, reading and writing skills in Mandarin Chinese. Master tones and the recognition and writing of approximately 500 Chinese characters. Discuss Chinese culture and civilization. Prereq(s): *CHI 112 or two years of high school Chinese or permission of department chair.* Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the main idea and key information in novice-high level short, straightforward written and spoken conversations and informational and fictional texts.

Request and provide information in conversations on familiar topics by creating simple sentences and asking appropriate follow-up questions using correct tones.

Present personal information about life, activities, and events, using simple sentences through spoken and written language.

Combine a variety of grammar structures and vocabulary to respond to a range of novice-high level writing and speaking prompts using Chinese characters.

Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Mandarin-speaking cultures.

World Languages: French

FRE 111 - Elementary French 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn basic pronunciation and grammar necessary for reading, writing and conversing in French. Not for those who have experience with the French language. Crosslisted: *Also offered as FRE 111H; credit not given for both FRE 111 and FRE 111H.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the main idea and details about familiar topics in novice-mid level written and spoken conversations and texts.

Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced or memorized words, phrases, simple sentences, and questions.

Present information on familiar and cultural topics using a variety of practiced or memorized words, phrases, and simple sentences through spoken and written language.

Combine a variety of grammar structures and vocabulary to respond to a range of novice-mid level writing and speaking prompts.

Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Francophone cultures.

FRE 111H - Elementary French 1 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Learn basic pronunciation and grammar necessary for reading, writing and conversing in French. Not for those who have experience with the French language. Crosslisted: *Also offered as FRE 111; credit not given for both FRE 111 and FRE 111H.* Note: *Not for native speakers.* Location(s)

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AACC 2024-2025 Print Catalog

(Refer to www.catalog.aacc.edu for most updated 2024-2025 catalog available)

Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and details about familiar topics in novice-mid level written and spoken conversations and texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced or memorized words, phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced or memorized words, phrases, and simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-mid level writing and speaking prompts.
- Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Francophone cultures.

FRE 112 - Elementary French 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in FRE 111 with emphasis on speaking, reading and writing. Prereq(s): *FRE 111 or one year of high school French or permission of department chair.*

Crosslisted: *Also offered as FRE 112H; credit not given for both FRE 112 and FRE 112H.* Note: *Not for native speakers.* Location(s)

Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and some pieces of information in novice-high level written and spoken conversations about familiar topics and short informational or fictional texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced, memorized, and original phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced, memorized, and some original phrases and simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-high level writing and speaking prompts.
- Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Francophone cultures.

FRE 112H - Elementary French 2 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in FRE 111 with emphasis on speaking, reading and writing. Prereq(s): *FRE 111 or one year of high school French or permission of department chair.* Crosslisted: *Also offered as FRE 112; credit not given for both FRE 112 and FRE 112H.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and some pieces of information in novice-high level written and spoken conversations about familiar topics and short informational or fictional texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced, memorized, and original phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced, memorized, and some original phrases and simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-high level writing and speaking prompts.
- Formulate comparisons between students' cultural experiences and the cultural products, practices,

FRE 121 - French Conversation

2 credit hours - Two hours weekly; one term.

Develops skill and practice with spoken French. Conducted entirely in French. For students who have some background in the language. May be repeated once on an audit basis. Prereq(s): *FRE 112 or two years of high school French or permission of department chair.* Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and some pieces of information in novice-high level spoken conversations about familiar topics and short informational or fictional texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced, memorized, and original phrases, simple sentences, and questions.
- Present information orally and in writing about familiar themes and cultural topics using a variety of rehearsed original phrases and simple sentences.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-high level speaking prompts.
- Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Francophone cultures.

FRE 125 - French Composition

2 credit hours - Two hours weekly; one term.

Develops skill and practice with written French. Focuses on readings and writing assignments on aspects of French culture and contemporary life. For students who have some background in the language. Prereq(s): *FRE 111 or one year of high school French or permission of department chair.* Note: *Not for native speakers.*

FRE 211 - Intermediate French 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build vocabulary and grammar skills for the purpose of reading, writing, listening and speaking. Discuss aspects of French culture. Prereq(s): *FRE 112 or two years of high school French or permission of department chair.* Crosslisted: *Also offered as FRE 211H; credit not given for both FRE 211 and FRE 211H.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and key information in intermediate-low level short, straightforward written and spoken conversations and informational and fictional texts.
- Request and provide information in conversations on familiar topics by creating simple sentences and asking appropriate follow-up questions.
- Present personal information about life, activities, and events, using simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of intermediate-low level writing and speaking prompts.
- Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Francophone cultures.

FRE 211H - Intermediate French 1 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Build vocabulary and grammar skills for the purpose of reading, writing, listening and speaking. Discuss aspects of French culture. Prereq(s): *FRE 112 or two years of high school French or permission of department chair.* Crosslisted: *Also offered as FRE 211; credit not given for both FRE 211 and FRE 211H.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the main idea and key information in intermediate-low level short, straightforward written and spoken conversations and informational and fictional texts.

Request and provide information in conversations on familiar topics by creating simple sentences and asking appropriate follow-up questions.

Present personal information about life, activities, and events, using simple sentences through spoken and written language.

Combine a variety of grammar structures and vocabulary to respond to a range of intermediate-low level writing and speaking prompts.

Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Francophone cultures.

FRE 212 - Intermediate French 2

3 credit hours - Three hours weekly; one term.

Master intermediate vocabulary and grammar structures. Read short poetry and short fiction in French. Discuss French and Francophone culture. Prereq(s): *FRE 211 or three years of high school French or permission of department chair*. Crosslisted: *Also offered as FRE 212H; credit is not given for both FRE 212 and FRE 212H*. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the main idea and flow of events expressed in various time frames in intermediate-mid level conversations, discussions, and paragraph-length fictional texts.

Exchange information in conversations on familiar topics and some researched topics, creating sentences and series of sentences and asking a variety of follow-up questions.

Present a variety of familiar topics and some concrete research topics, using sentences and series of connected sentences through spoken and written language.

Combine a variety of grammar structures and vocabulary to respond to a range of intermediate-mid level writing and speaking prompts.

Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Francophone cultures.

FRE 212H - Intermediate French 2 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Master intermediate vocabulary and grammar structures. Read short poetry and short fiction in French. Discuss French and Francophone culture. Prereq(s): *FRE 211 or three years of high school French or permission of department chair*. Crosslisted: *Also offered as FRE 212; credit not given for both FRE 212 and FRE 212H*. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the main idea and flow of events expressed in various time frames in intermediate-mid level conversations, discussions, and paragraph-length fictional texts.

Exchange information in conversations on familiar topics and some researched topics, creating sentences and series of sentences and asking a variety of follow-up questions.

Present a variety of familiar topics and some concrete research topics, using sentences and series of connected sentences through spoken and written language.

Combine a variety of grammar structures and vocabulary to respond to a range of intermediate-mid level writing and speaking prompts.

Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of Francophone cultures.

FRE 213 - Intermediate French Grammar Review and Composition

3 credit hours - Three hours weekly; one term.

Reviews grammatical usage of French, including present, past, imperfect, past perfect and future verb tenses, prepositions, articles,

negation, interrogation, comparative and superlative forms of adjectives and adverbs, personal subject and object pronouns. Training in guided composition is a significant component in the course. Prereq(s): *FRE 212 or four years of high school French or permission of the department chair*. Note: *Not for native speakers*.

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain grammatical structures by comparing French to their first language.
- Apply correct grammar usage to present information, concepts, and ideas to inform, explain, persuade, and narrate on a variety of topics.
- Develop diverse perspectives of Francophone cultures.

FRE 221 - Intermediate French Conversation

3 credit hours - Three hours lecture weekly; one term.

Develop interpersonal communication, presentational speaking, and interpretive listening skills in French at the intermediate level. Enhance listening skills, pronunciation, and intonation. Discuss current events and popular culture in the Francophone world. Taught in French. Prereq(s): *FRE 212 or four years of high school French or permission of department chair*. Note: *Not for native speakers*.
Course Outcomes

Upon successful completion of this course, students will be able to:

- Interact and negotiate meaning in conversations by sharing information, feelings, and opinions.
- Combine a variety of grammar structures and vocabulary to respond to written and oral prompts about a variety of topics.
- Present information, concepts, and ideas to inform, explain, persuade, and narrate a variety of topics.
- Develop enhanced cultural awareness by studying the products, practices, and perspectives of Francophone cultures.

FRE 225 - Intermediate French Civilization and Culture 1

3 credits - Three credit hours weekly; one term.

Formerly FRE 225 - Intermediate French Conversation and Culture 1 Study the history, culture, literature, and fine arts of France from pre-Roman times to the Renaissance. Discuss the influence of artistic and political movements on early French society. Taught in French. Prereq(s): *FRE 212 or four years of high school French or permission of department chair*. Note: *Not for native speakers*.
Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the major periods in French history from pre-Roman Gaul to the Renaissance.
- Discuss the progression of French society from tribal organization through feudalism and absolute monarchy.
- Compare representative examples of French literature from the medieval period and the Renaissance.
- Evaluate the contributions of the visual and performing arts to early French civilization.
- Identify major architectural periods and their representative monuments in France.
- Present information, concepts, and ideas to inform, explain, persuade, and narrate a variety of topics related to French history.

FRE 226 - Intermediate French Civilization and Culture 2

3 credit hours - Three hours weekly; one term.

Formerly FRE 226 - Intermediate French Conversation and Culture 2 Study the history, culture, literature, and fine arts of France from the early modern period to the present. Discuss the influence of artistic and political movements on early modern, modern, and contemporary French society. Taught in French. Prereq(s): *FRE 212 or four years of high school French or permission of department chair*. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Describe the major periods in French history from the seventeenth century to the present.
- Discuss the transformation of French society and politics from monarchy to democracy.

Compare major movements in French literature from classicism to the avant-garde.
Evaluate the contributions of the visual and performing arts to early modern and modern French civilization.
Identify major architectural periods and their representative monuments in France.
Present information, concepts, and ideas to inform, explain, persuade, and narrate a variety of topics related to French history.

FRE 227 - Intermediate Francophone Civilization and Culture

3 credit hours - Three hours lecture weekly; one term.

Study the culture and civilization of the French-speaking (Francophone) world beyond France. Develop reading, writing, speaking, and listening skills. Taught in French. Prereq(s): *FRE 212 or four years of high school French or permission of department chair.*

Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the early Modern and Modern history of the Francophone world.
- Describe the geography of the Francophone world.
- Analyze Francophone societies and politics in the 20th and 21st centuries.
- Compare aspects of the fine arts in the Francophone world.
- Assess aspects of literature in the Francophone world.
- Discuss popular culture and the media in the Francophone world.
- Present information, concepts, and ideas to inform, explain, persuade, and narrate a variety of topics related to Francophone history.

FRE 230 - French for Business and Finance

3 credit hours - Three hours weekly; one term.

Covers business-related French vocabulary and the concepts of international business and finance. Course includes a review of French grammar and practice writing different types of communications in French for hypothetical business situations. Prereq(s): *FRE 211 or three years of high school French or permission of department chair.* Note: *Not for native speakers.*

FRE 280-299 - Special Topics in French

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An in-depth examination of a topic in French language or French and Francophone civilization and culture. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may present transfer problems, students should work with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Prereq(s): *FRE 212 or four years of high school French or permission of the department chair.*

World Languages: German

GER 111 - Elementary German 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn basic pronunciation and grammar necessary for reading, writing and conversing in German. Not for those who have experience with the German language. Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and details about familiar topics in novice-mid level written and spoken conversations and texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced or memorized words, phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced or memorized words, phrases, and simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-mid level writing and speaking prompts.

Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of German-speaking cultures.

GER 112 - Elementary German 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in GER 111 with emphasis on speaking, listening, reading and writing. Prereq(s): *GER 111 or one year of high school German or permission of department chair.*

Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and some pieces of information in novice-high level written and spoken conversations about familiar topics and short informational or fictional texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced, memorized, and original phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced, memorized, and some original phrases and simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-high level writing and speaking prompts.
- Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of German-speaking cultures.

GER 121 - German Conversation

2 credit hours - Two hours weekly; one term.

A course to develop skill in and practice with spoken German. Conducted entirely in German. For students who have some background in the language. May be repeated once on an audit basis. Prereq(s): *GER 112 or two years of high school German or permission of department chair.* Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and some pieces of information in novice-high level spoken conversations about familiar topics and short informational or fictional texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced, memorized, and original phrases, simple sentences, and questions.
- Present information orally and in writing about familiar themes and cultural topics using a variety of rehearsed original phrases and simple sentences.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-high level speaking prompts.
- Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of German-speaking cultures.

GER 211 - Intermediate German 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build vocabulary and grammar skills for the purpose of reading, writing, listening and speaking. Discuss aspects of German culture. Prereq(s): *GER 112 or two years of high school German or permission of department chair.* Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, students will be able to:

- Identify the main idea and key information in intermediate-low level short, straightforward written and spoken conversations and informational and fictional texts.
- Request and provide information in conversations on familiar topics by creating simple sentences and asking appropriate follow-up questions.

Present personal information about life, activities, and events, using simple sentences through spoken and written language.
Combine a variety of grammar structures and vocabulary to respond to a range of intermediate-low level writing and speaking prompts.
Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of German-speaking cultures.

GER 212 - Intermediate German 2

3 credit hours - Three hours weekly; one term.

Master intermediate vocabulary and grammar structures. Read short poetry and short fiction in German. Discuss German culture.

Prereq(s): *GER 211 or two years of high school German or permission of department chair. Note: Not for native speakers.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Identify the main idea and flow of events expressed in various time frames in intermediate-mid level conversations, discussions, and paragraph-length fictional texts.
Exchange information in conversations on familiar topics and some researched topics, creating sentences and series of sentences and asking a variety of follow-up questions.
Present a variety of familiar topics and some concrete research topics, using sentences and series of connected sentences through spoken and written language.
Combine a variety of grammar structures and vocabulary to respond to a range of intermediate-mid level writing and speaking prompts.
Formulate comparisons between students' cultural experiences and the cultural products, practices, and perspectives of German-speaking cultures.

GER 221 - Intermediate German Conversation

3 credit hours - Three hours lecture weekly; one term.

Develop interpersonal communication, presentational speaking, and interpretive listening skills in German at the intermediate level.

Enhance listening skills, pronunciation, and intonation. Discuss current events and popular culture in German-speaking world. Taught in German. Prereq(s): *GER 212 or four years of high school German or permission of department chair. Note: Not for native speakers.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Interact and negotiate meaning in conversations by sharing information, feelings, and opinions.
Combine a variety of grammar structures and vocabulary to respond to written and oral prompts about a variety of topics.
Present information, concepts, and ideas to inform, explain, persuade, and narrate a variety of topics.
Develop enhanced cultural awareness by studying the products, practices, and perspectives of German-speaking cultures.

GER 225 - Modern German Civilization and Culture 1

3 credit hours - Three hours lecture weekly; one term.

Study the culture and civilization of German-speaking Europe from the Enlightenment to the early twentieth century. Develop reading, writing, speaking, and listening skills. Taught in German. Prereq(s): *GER 212 or four years of high school German or permission of department chair. Note: Not for native speakers.*

Course Outcomes

Upon successful completion of this course, students will be able to:

Explain in general terms the history of Germany, Switzerland, Austria, and other German-speaking territories through World War 1.
Describe aspects of the arts in German-speaking Europe in the 18th, 19th, and early 20th century.
Describe German-language societies and cultures in the 18th, 19th, and early 20th centuries.
Present information, concepts, and ideas to inform, explain, persuade, and narrate a variety of topics related to German-speaking cultures.

GER 226 - Modern German Civilization and Culture 2

3 Credit Hours - Three hours lecture weekly; one term

Study the culture and civilization of German-speaking Europe in the twentieth and twenty-first centuries. Develop reading, writing, speaking, and listening skills. Taught in German. Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

Explain in general terms the modern history of Germany, Switzerland, Austria, and other German-speaking territories.

Discuss the geography of German-speaking Europe from the end of World War I to 1989.

Describe 20th century German society.

Explain the rise of the Third Reich and the causes of World War II.

Discuss the Cold War and its effects on German-speaking Europe.

Identify alternative social movements of the 1960s and 1970s.

Discuss the division and reunification of Germany.

Explain Germany and Austria's coming to terms with the atrocities of their wartime past.

Describe aspects of the arts in German-speaking Europe.

Discuss the importance of representative poetry and fiction by German, Swiss, and Austrian authors.

Discuss the importance of representative theatrical works by German, Swiss, and Austrian authors.

Identify representative works of art by German, Swiss, and Austrian artists.

List major movements, composers, and works in German and Austrian music.

Discuss the development of the German-language film industry and its associated artists.

Describe German-language societies and cultures in the 20th and early 21st centuries.

Describe the political systems of German-speaking Europe from the 1932 elections to the present.

Discuss the economic systems of 20th and early 21st century Europe.

Discuss aspects of social interaction in contemporary European society.

Explain the effects of surveillance, immigration, xenophobia, and terrorism on contemporary European society.

Describe aspects of popular culture in German-speaking Europe.

Demonstrate correct usage of standard German.

Describe events in the past, present, and future in German.

Express opinions in the target language.

Debate topics in German.

Write short essays in German.

World Languages: Greek

GRK 111 - Elementary Greek 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Develop vocabulary and grammar skills for reading and writing classical Greek. Learn about classical Greek culture and civilization.

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Communicate ideas orally and in writing using simple language construction in the newly acquired language.
2. Demonstrate correct grammatical structures in another language.
3. Demonstrate orally and in writing the understanding of diverse human cultures.
4. Demonstrate orally and in writing the understanding of the complex relationship between the social, aesthetic, political, and physical environment and the culture of a society.

GRK 112 - Elementary Greek 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in GRK 111. Read and translate short selections from a wide variety of Greek authors and the New Testament. Prereq(s): *GRK 111 or permission of the department chair.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Use ancient Greek grammatical structures and vocabulary correctly.
2. Write sentences in ancient Greek.
3. Interpret written literary passages in ancient Greek with the aid of a dictionary.
4. Identify the etymology of English words (thus enhancing his/her English vocabulary).
5. Discuss the culture of Classical Greece.

World Languages: Hebrew

HEB 111 - Elementary Hebrew 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Introduction to basics of pronunciation and grammar necessary for reading, writing and conversing in Hebrew. This course is not designed for persons who have experience with the Hebrew language. Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

- a. Demonstrate correct usage of Hebrew grammatical structures at a high elementary level.
- b. Use home-, work-, and weather-related vocabulary in the target language.
- c. Demonstrate reading and writing skills at a high elementary level.
- d. Demonstrate oral communication skills at a high elementary level.
- e. Discuss elements of Israeli culture.

HEB 112 - Elementary Hebrew 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Continuation of HEB 111 with emphasis on speaking, reading and writing. Prereq(s): *HEB 111 or one year of high school Hebrew or permission of department chair.* Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Use Hebrew grammatical structures at a high elementary level.
2. Use home-, work-, and weather-related vocabulary in the target language.
3. Read and write in Hebrew at a high elementary level.
4. Speak in Hebrew at a high elementary level.
5. Discuss elements of Israeli culture.

HEB 113 - Elementary Biblical Hebrew 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Develop vocabulary and grammar skills for reading and writing Biblical Hebrew. Note: *This course is not designed to teach spoken modern Hebrew. It focuses solely on reading, writing, and translating biblical (ancient) Hebrew.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Use biblical Hebrew grammatical structures correctly at a high elementary level.
2. Use level-appropriate vocabulary in the target language.
3. Read and write in the target language at a high elementary level.
4. Translate biblical Hebrew at a high elementary level.
5. Discuss elements of Hebrew and non-Hebrew civilizations of the ancient Middle East.

HEB 114 - Elementary Biblical Hebrew 2

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Develop vocabulary and grammar skills for reading and writing Biblical Hebrew. Gain experience in translating texts written in Biblical Hebrew. Note: *This course is not designed to teach spoken modern Hebrew. It focuses solely on reading, writing, and translating biblical (ancient) Hebrew.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Use Biblical Hebrew grammatical structures correctly.
2. Use vocabulary in the target language.
3. List the traditional names of God.
4. Identify geographical features in the ancient Middle East.
5. Read and write in biblical Hebrew.
6. Use dictionaries and concordances.
7. Discuss the history of translation of Biblical Hebrew texts in Judaism and Christianity.
8. Discuss aspects of ancient Middle Eastern Civilization.
9. Discuss ancient Hebrew conceptions of the divine.
10. Discuss relationships among family members contained in Proverbs and the Book of Ruth.

World Languages: Italian

ITA 111 - Elementary Italian 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn basic pronunciation, vocabulary and grammar necessary for reading, writing and conversing in the Italian language. Begin to explore the Italian culture. Not for those who have experience with the Italian language. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Communicate ideas orally and in writing using simple language construction in the newly acquired language.
2. Demonstrate correct grammatical structures in another language.
3. Demonstrate orally and in writing the understanding of diverse human cultures.
4. Demonstrate orally and in writing the understanding of the complex relationship between the social, aesthetic, political, and physical environment and the culture of a society.

ITA 112 - Elementary Italian 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in ITA 111 with emphasis now on speaking, reading and writing. Prereq(s): *ITA 111 or one year of high school Italian or permission of department chair*. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Communicate ideas orally and in writing using simple language construction in Italian.
2. Use Italian grammatical structures correctly.
3. Use Italian vocabulary correctly.
4. Read Italian at the elementary level.
5. Discuss the complex relationship between the social, aesthetic, political, and physical environment and the culture of an Italian society.

ITA 121 - Italian Conversation

2 credit hours - Two hours weekly; one term.

Develop skill and practice with spoken Italian. Conducted entirely in Italian. For students who have studied elementary Italian grammar. May be repeated once on an audit basis. Prereq(s): *ITA 112 or two years of high school Italian or permission of department chair*. Note: *Not for native speakers*.

ITA 211 - Intermediate Italian 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build vocabulary and grammar skills for the purpose of

reading, writing, listening, and speaking. Discuss aspects of Italian culture. Prereq(s): *ITA 112 or two years of high school Italian or permission of department chair*. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Communicate ideas orally and in writing using simple language construction in Italian.
2. Use Italian grammatical structures correctly.
3. Use Italian vocabulary correctly.
4. Read and analyze literary works written in Italian.
5. Discuss the complex relationship between the social, aesthetic, political, and physical environment and the culture of an Italian society.

ITA 212 - Intermediate Italian 2

3 credit hours - Three hours weekly; one term.

Master intermediate vocabulary and grammar structures. Read short poetry and short fiction in Italian. Discuss Italian culture.

Prereq(s): *ITA 212 or three years of high school Italian or permission of department chair*. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

ITA 221 - Intermediate Italian Conversation

3 credit hours - Three hours weekly; one term.

Emphasizes skills required to deal well in Italian with everyday speaking situations. Enhance listening skills, pronunciation and intonation. Prereq(s): *ITA 212 or four years of high school Italian or permission of department chair*. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Use vocabulary necessary to maintain everyday conversations.

- Talk about newspaper and magazine articles in Italian.
- Use workplace vocabulary.
- Discuss music.
- Discuss food.
- Discuss fashion.

Demonstrate correct usage of grammatical forms at an intermediate level.

- Demonstrate correct use of all verb tenses.
- Demonstrate correct use of nouns and pronouns.
- Use adjectives correctly.
- Use articles correctly.
- Demonstrate correct use of interrogative adjectives and pronouns.

Hold conversations about everyday topics at an intermediate level.

- Discuss articles in Italian.
- Interact with the instructor in Italian.
- Interact with other students in Italian.
- Express opinions.

Discuss elements of Italian culture.

- Discuss the idea of Italamerica.
- List Italian musicians and music.
- Discuss Italian cuisine.
- Describe the use of technology in Italy.
- Discuss social and community issues in Italian communities.
- Describe Italian traditions, festivals, and holidays.

ITA 225 - Intermediate Italian Culture and Civilization

3 credit hours - Three hours weekly; one term.

Study the history, culture, literature and fine arts of Italy. Discuss the influence of artistic and political movements on contemporary

Italian society. Taught in Italian. Prereq(s): *ITA 212 or four years of high school Italian or permission of department chair*. Note: *Not for native speakers*.

World Languages: Japanese

JPN 111 - Elementary Japanese 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn basic Japanese pronunciation, vocabulary and grammar with an emphasis on simple conversation. Learn the hiragana and katakana writing systems and 30 kanji characters. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the main idea and some details about familiar topics in short written and spoken conversations and texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced or memorized words, phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced or memorized words, phrases, and simple sentences through spoken language.
- Combine a variety of grammar structures and vocabulary to respond to a range of mid novice-level writing prompts using the hiragana and katakana writing systems and 30 kanji characters.
- Formulate comparisons between the cultural products, practices, and perspectives of Japanese culture and those of my own.

JPN 112 - Elementary Japanese 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Continue to learn spoken and written Japanese with an emphasis on basic conversational skills. Expand your vocabulary alongside learning 90 new kanji characters. Prereq(s): *JPN 111 or one year of high school Japanese or permission of department chair*. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the main idea and some pieces of information within written and spoken conversations about familiar topics and short informational or fictional texts.
- Communicate in spontaneous spoken conversations on both familiar and everyday topics, using a variety of practiced, memorized, or original phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced, memorized, and some original phrases and simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of high novice-level writing prompts using the hiragana and katakana writing systems and 90 new kanji characters.
- Formulate comparisons between the cultural products, practices, and perspectives of Japanese culture and those of my own.

JPN 211 - Intermediate Japanese 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts and Humanities General Education Requirement. Build on knowledge acquired in JPN 112 to expand conversational and written skills. Learn 90 new kanji characters. Prereq(s): *JPN 112 or four years of high school Japanese or permission of department chair*. Note: *Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify the main idea and key information in short, straightforward written and spoken conversations and informational and fictional texts.

Request and provide information in conversations on familiar topics by creating simple sentences and asking appropriate follow-up questions.

Present personal information about my life, activities, and events, using simple sentences through spoken and written language.

Combine a variety of grammar structures and vocabulary to respond to a range of low intermediate-level writing and speaking prompts using previous knowledge and 90 new kanji characters.

Formulate comparisons between the cultural products, practices, and perspectives of Japanese culture and those of my own.

JPN 212 - Intermediate Japanese 2

3 credit hours - Three hours lecture weekly; one term.

Build on knowledge acquired in JPN 211 to expand conversational and written skills with a focus on polite speech. Learn 90 new kanji characters. Prereq(s): *JPN 211 or permission of department chair.* Note: *Not for native speakers.*

Course Outcomes

Identify the main idea and flow of events expressed in various time frames in conversations, discussions, and multi-paragraph-length informational and fictional texts.

Exchange information in conversations on familiar topics and some researched topics, creating sentences and series of sentences and asking a variety of follow-up questions.

Present a variety of familiar topics and some concrete topics I have researched, using sentences and series of connected sentences through spoken and written language.

Combine a variety of grammar structures and vocabulary to respond to a range of mid intermediate-level writing and speaking prompts using the hiragana and katakana writing systems and 90 new kanji characters.

Formulate comparisons between the cultural products, practices, and perspectives of Japanese culture and those of my own.

World Languages: Korean

KOR 111 - Elementary Korean 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn basic pronunciation and grammar necessary for reading, writing and conversing in Korean. Not for those who have experience with the Korean language. Note: *Not for native speakers.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate correct usage of Modern Standard Korean grammatical structures.
2. Use elementary vocabulary in the target language.
3. Demonstrate reading and writing skills.
4. Demonstrate oral communication skills.
5. Discuss aspects of Korean culture.

KOR 112 - Elementary Korean 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in KOR 111 with emphasis on speaking, reading and writing. Note: *Not for native speakers.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Use Modern Standard Korean grammatical structures correctly.
2. Use vocabulary in the target language.
3. Read and write in Korean at the elementary level.
4. Speak Korean at the elementary level.
5. Discuss aspects of Korean culture.

KOR 211 - Intermediate Korean 1

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build vocabulary and grammar skills for the purpose of reading, writing, listening and speaking. Discuss aspects of Korean culture. Prereq(s): *KOR 112 or two years of high school Korean or permission of department chair.* Note: *Not for native speakers.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Request and provide information in conversations on familiar topics by creating simple sentences and asking appropriate follow-up questions.
- Identify the main idea and key information in short, straightforward written and spoken conversations and informational and fictional texts.
- Present personal information about my life, activities and events, using simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of low intermediate-level writing and speaking prompts.
- Formulate comparisons between the cultural products, practices, and perspectives of Korean culture and those of my own.

KOR 212 - Intermediate Korean 2

3 credit hours - Three hours lecture weekly; one term.

Master intermediate vocabulary and grammar structures. Read short poetry and short fiction in Korean. Discuss Korean culture.

Prereq(s): *KOR 211 or three years of high school Korean or permission of department chair.* Note: *Not for native speakers.*

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Explain the main idea and flow of events expressed in various time frames in conversations, discussions, and paragraph-length fictional texts.
- Exchange information in conversations on familiar topics and some researched topics, creating sentences and series of sentences and asking a variety of follow-up questions.
- Present a variety of familiar topics and some concrete topics I have researched, using sentences and series of connected sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to mid-intermediate level writing, and speaking prompts.
- Formulate comparisons between Korean culture's cultural products, practices, and perspectives and those of my own

World Languages: Latin

LAT 111 - Elementary Latin 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Develop vocabulary and grammar skills for reading and writing Latin. Learn about classical Roman culture and civilization.

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Understand the basic grammatical and syntactical elements of Classical Latin.
2. Read, pronounce, and translate basic Classical Latin (with the aid of a Latin Lexicon).
3. Participate in thoughtful discussions about linguistics, grammar, and rhetorical devices.
4. Better express themselves in English by studying prefixes, roots, suffixes, and grammar.
5. Further develop analytical and critical thinking skills.
6. Further appreciate Classical Roman culture.

LAT 112 - Elementary Latin 2

3 credit hours - Three hours of lecture weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in LAT 111. Read and

translate short selections from a wide variety of Latin authors. Prereq(s): *LAT 111 or one year of high school Latin or permission of department chair.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Use basic grammatical and syntactical elements of Classical Latin correctly.
2. Read, pronounce, and translate basic Classical Latin (with the aid of a Latin lexicon).
3. Participate in thoughtful discussions about linguistics.
4. Apply Latin prefixes, roots, suffixes, and grammar to the English language.
5. Critically analyze basic texts written in Classical Latin.
6. Discuss Classical Roman culture.

World Languages: Portuguese

PRT 111 - Elementary Portuguese 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement.

Introduction to basics of pronunciation and grammar necessary for reading, writing and conversing in Portuguese. This course is not designed for persons who have experience with the Portuguese language. Note: *Not for native speakers.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate correct usage of Modern Standard Portuguese (Brazilian and/or Continental) grammatical structures.
2. Use elementary vocabulary in the target language.
3. Demonstrate reading and writing skills.
4. Demonstrate oral skills.
5. Discuss aspects of Lusophone culture.

PRT 112 - Elementary Portuguese 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Continuation of PRT 111 with emphasis on speaking, reading and writing. Prereq(s): *PRT 111 or one year of high school Portuguese or permission of department chair.*

Course Outcomes

Demonstrate correct usage of Modern Standard Portuguese (Brazilian and/or Continental) grammatical structures.

- Use the present tense of regular, irregular, and stem-changing verbs.
- Express obligation.
- Discuss future plans.
- Discuss actions in progress.
- Discuss likes and dislikes.
- Discuss possession.
- Describe people and things.
- Tell time.

Use elementary vocabulary in the target language.

- Use nationality vocabulary.
- Use words related to items in the home.
- Use day and date vocabulary.
- List common places.
- Identify parts of the body.
- Count to 1000.
- Talk about the weather.
- Identify clothing items and materials.

Demonstrate reading and writing skills.

- Read short, informative paragraphs with cognates.

Write paragraphs describing everyday activities.
Write paragraphs discussing future plans and obligations.

Demonstrate oral skills.

Interact through conversation at a basic level.
Demonstrate correct pronunciation.

Discuss aspects of Lusophone culture.

List Portuguese-speaking countries and their capitals.
Compare everyday Lusophone culture to that of the United States.
Identify Lusophone artists, writers, filmmakers, and musicians.

PRT 119 - Accelerated Beginning Portuguese

3 credit hours - Three hours weekly; one term.

Develop an understanding of basic pronunciation and grammar necessary for reading, writing and speaking in Portuguese. Note: *Designed for students who have studied Indo-European language. Credit is not given for both PRT 119 and PRT 111, or PRT 119 and PRT 112. Not for native speakers.*

PRT 211 - Intermediate Portuguese 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build vocabulary and grammar skills for the purpose of speaking, listening, reading, and writing. Discuss the culture and civilization of Brazil, Portugal, and Lusophone Africa and Asia. Prereq(s): *PRT 112 or PRT 119 or two years of high school Portuguese or permission of department chair. Note: Not for native speakers.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Use Modern Standard Portuguese (Brazilian and/or Continental) grammatical structures correctly.
2. Use intermediate vocabulary in the target language.
3. Read and write in Modern Standard Portuguese (Brazilian and/or Continental) at an intermediate level.
4. Speak Modern Standard Portuguese (Brazilian and/or Continental) at an intermediate level.
5. Discuss aspects of Lusophone culture.

World Languages: Russian

RUS 111 - Elementary Russian 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Learn basic pronunciation and grammar necessary for reading, writing and conversing in Russian. Not for those who have experience with the Russian language. Note: *Not for native speakers.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Communicate ideas orally and in writing using simple language construction in the newly acquired language.
2. Demonstrate correct grammatical structures in another language.
3. Demonstrate orally and in writing the understanding of diverse human cultures.
4. Demonstrate orally and in writing the understanding of the complex relationship between the social, aesthetic, political, and physical environment and the culture of a society.

RUS 112 - Elementary Russian 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in RUS 111 with emphasis on reading, writing, speaking and translating. Prereq(s): *RUS 111 or one year of high school Russian or permission of department chair.* Note: *Not for native speakers.* Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Communicate ideas orally and in writing using simple language construction in Russian.

2. Use Russian grammatical structures correctly.
3. Use Russian vocabulary correctly.
4. Read Russian at the elementary level.
5. Discuss the complex relationship between the social, aesthetic, political, and physical environment and the culture of a Russian society.

RUS 211 - Intermediate Russian 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge acquired in RUS 112. Continue to advance students understanding of basic pronunciation and grammar necessary for reading, writing and conversing in Russian.

Prereq(s): *RUS 112 or two years of high school Russian or permission of department chair. Note: Not for native speakers.* Location(s)

Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

RUS 212 - Intermediate Russian 2

3 credit hours - Three hours lecture weekly; one term.

Master intermediate vocabulary and grammar structures. Read short poetry, fiction, and/or non-fiction in Russian. Discuss Russian culture. Prereq(s): *RUS 211 or three years of high school Russian or permission of department chair. Note: Not for native speakers.*

Location(s) Typically Offered: Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Demonstrate correct pronunciation, inflection, and intonation of Russian sounds
- Communicate directions, reservations, travel plans, and details of towns and cities in spoken Russian
- Develop active and passive Russian vocabulary related to leisure time, travel, weather, and the urban environment
- Manipulate intermediate-level Russian grammatical constructions related to declensions governed by specific prepositions
- Comprehend spoken Russian on topics relating to numerical expressions, leisure activities, and travel
- Develop intermediate-level reading comprehension skills in short literary forms, print media, and social media
- Discuss representative topics in contemporary Russian culture

RUS 221 - Intermediate Russian Conversation

3 credit hours - Three hours weekly; one term.

Develop spoken fluency in intermediate Russian by engaging in everyday speaking situations. Enhance listening skills, pronunciation, and intonation. Prereq(s): *RUS 212 or four years of high school Russian or permission of department chair. Note: Not for native speakers. In some cases, heritage speakers of Russian may enroll with permission of department chair.*

Course Outcomes

- Use and pronounce Modern Standard Russian intermediate-level vocabulary correctly in conversation.
- Use Modern Standard Russian grammatical structures correctly at the intermediate level.
- Interpret Modern Standard Russian spoken at a normal speed and formulate an appropriate response.
- Discuss aspects of Russian culture abroad and in the U.S.

World Languages: Spanish

SPA 100 - Review of Spanish Grammar for Native Speakers

3 credit hours - Three hours weekly; one term.

A review of the essentials of Spanish grammar for students who speak Spanish as their primary language. Designed for students who have not studied Spanish in a school setting.

SPA 111 - Elementary Spanish 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Develop an understanding of basic pronunciation and grammar necessary for reading, writing and speaking in Spanish. Not for those who have experience with the Spanish language.

Crosslisted: *Also offered as SPA 111H; credit is not given for both SPA 111 and SPA 111H. Note: Credit is not given for both SPA*

111 and SPA 140 and also SPA 140H. Not for native speakers. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the main idea and some details about familiar topics in short written and spoken conversations and texts.
- Communicate in spontaneous spoken conversations on both familiar and every day topics, using a variety of practiced or memorized words, phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced or memorized words, phrases, and simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-level writing and speaking prompts.
- Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 111H - Elementary Spanish 1 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Develop an understanding of basic pronunciation and grammar necessary for reading, writing and speaking in Spanish. Not for those who have experience with the Spanish language. Prereq(s): *Eligibility for Honors courses.* Crosslisted: *Also offered as SPA 111; credit is not given for both SPA 111H and SPA 111.* Note: *Credit is not given for both SPA 111H and SPA 140 and also SPA 140H. Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the main idea and some details about familiar topics in short written and spoken conversations and texts.
- Communicate in spontaneous spoken conversations on both familiar and every day topics, using a variety of practiced or memorized words, phrases, simple sentences, and questions.
- Present information on familiar and cultural topics using a variety of practiced or memorized words, phrases, and simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of novice-level writing and speaking prompts.
- Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 112 - Elementary Spanish 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in SPA 111 or SPA 140 with emphasis on speaking, reading and writing. Prereq(s): *SPA 111 or SPA 140 or one year of high school Spanish or permission of department chair.* Crosslisted: *Also offered as SPA 112H; credit is not given for both SPA 112 and SPA 112H.* Note: *Credit is not given for both SPA 112 and SPA 141 and also SPA 141H. Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the main idea and some pieces of information within written and spoken conversations about familiar topics and short informational or fictional texts.
2. Communicate in spontaneous spoken conversations on both familiar and every day topics, using a variety of practiced, memorized, or original phrases, simple sentences, and questions.
3. Present information on familiar and cultural topics using a variety of practiced, memorized, and some original phrases and simple sentences through spoken and written language.
4. Combine a variety of grammar structures and vocabulary to respond to a range of high novice-level writing and speaking prompts.
5. Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 112H - Elementary Spanish 2 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in SPA 111 or SPA 140 with emphasis on speaking, reading and writing. Prereq(s): *Eligibility for honors courses and SPA 111 or SPA 140 or one year of high school Spanish or permission of department chair.* Crosslisted: *Also offered as SPA 112; credit is not given for both SPA 112H and SPA 112.* Note: *Credit is not given for both SPA 112H and SPA 141H and also SPA 141. Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the main idea and some pieces of information within written and spoken conversations about familiar topics and short informational or fictional texts.
2. Communicate in spontaneous spoken conversations on both familiar and every day topics, using a variety of practiced, memorized, or original phrases, simple sentences, and questions.
3. Present information on familiar and cultural topics using a variety of practiced, memorized, and some original phrases and simple sentences through spoken and written language.
4. Combine a variety of grammar structures and vocabulary to respond to a range of high novice-level writing and speaking prompts.
5. Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 119 - Review of Elementary Spanish 1 and 2

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Review elementary Spanish for reading, writing, listening and speaking. This course is for students who have previous experience with the language. Note: *Credit is not given for both SPA 119 and SPA 111, or SPA 119 and SPA 112. Not for native speakers.*

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate correct usage of Modern Standard Spanish grammatical structures.
2. Use elementary vocabulary in the target language.
3. Demonstrate reading and writing skills.
4. Demonstrate oral communication skills.
5. Discuss aspects of Hispanic culture such as fine arts, popular culture, politics, economics, and daily life.

SPA 121 - Spanish Conversation

2 credit hours - Two hours weekly; one term.

Develops skill in and practice with spoken Spanish. Conducted entirely in Spanish. For students who have studied elementary Spanish grammar or by permission of department chair. May be repeated once on an audit basis. Prereq(s): *SPA 112 or two years of high school Spanish or permission of department chair.* Note: *Not for native speakers.*

SPA 125 - Spanish Composition

2 credit hours - Two hours weekly; one term.

Develops skill and practice with written Spanish. Focuses on readings and writing assignments on aspects of Spanish culture and contemporary life. For students who have some background in the language. Prereq(s): *SPA 111 or one year of high school Spanish or permission of department chair.* Note: *Not for native speakers.*

SPA 140 - Elementary Spanish for Health Care 1

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts and Humanities General Education Requirement. Build vocabulary and grammar skills for the purpose of reading, writing, listening and speaking in medical settings with Spanish-speaking patients. Learn pertinent information about Spanish-speaking cultures as it applies to a healthcare setting while participating in language tasks through listening, reading, writing, and conversation. Crosslisted: *Also offered as SPA 140H; credit is not given for both SPA 140 and SPA 140H.* Note: *Credit will not be given for both SPA 140 and SPA 111 or SPA 140 and SPA 111H. Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the main idea and pieces of information within written and spoken conversations and in short informational texts about familiar, every day, and medical topics.
2. Communicate in spontaneous spoken conversations on familiar, every day and medical topics, using a variety of practiced, memorized, or original phrases, simple sentences, and questions.
3. Present information on familiar, medical, and cultural topics using simple sentences and a variety of practiced, memorized, and some original phrases through spoken and written language.
4. Combine a variety of grammar structures and vocabulary to respond to a range of high novice-level writing and speaking prompts related to health care interactions.
5. Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 140H - Elementary Spanish for Health Care 1 – Honors

3 credit hours - Three hours lecture weekly; one term.

This is an honors course. This course meets the Arts and Humanities General Education Requirement. Build vocabulary and grammar skills for the purpose of reading, writing, listening and speaking in medical settings with Spanish-speaking patients. Learn pertinent information about Spanish-speaking cultures as it applies to a healthcare setting while participating in language tasks through listening, reading, writing, and conversation. Prereq(s): *Eligibility for Honors courses*. Crosslisted: *Also offered as SPA 140; credit is not given for both SPA 140H and SPA 140*. Note: *Credit is not given for both SPA 140H and SPA 111 and also SPA 111H. Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the main idea and pieces of information within written and spoken conversations and in short informational texts about familiar, every day, and medical topics.
2. Communicate in spontaneous spoken conversations on familiar, every day and medical topics, using a variety of practiced, memorized, or original phrases, simple sentences, and questions.
3. Present information on familiar, medical, and cultural topics using simple sentences and a variety of practiced, memorized, and some original phrases through spoken and written language.
4. Combine a variety of grammar structures and vocabulary to respond to a range of high novice-level writing and speaking prompts related to health care interactions.
5. Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 141 - Elementary Spanish for Health Care 2

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts and Humanities General Education Requirement. Build upon knowledge learned in SPA 140 or SPA 111 with emphasis on speaking, reading and writing in a healthcare environment. Prereq(s): *SPA 111 or SPA 140 or one year of high school Spanish or permission of department chair*. Crosslisted: *Also offered as SPA 141H; credit is not given for both SPA 141 or SPA 141H*. Note: *Credit will not be given for both SPA 141 and SPA 112 or SPA 141 and SPA 112H. Not for native speakers*. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the main idea and some pieces of information within written and spoken conversations about familiar topics and short informational or fictional texts with an emphasis on medical topics.
2. Communicate in spontaneous spoken conversations on both familiar, every day and medical topics, using a variety of practiced, memorized, or original phrases, simple sentences, and questions.
3. Present information on familiar, medical, and cultural topics using simple sentences and a variety of practiced, memorized, and some original phrases through spoken and written language.
4. Combine a variety of grammar structures and vocabulary to respond to a range of high novice-level writing and speaking prompts related to health care interactions.

5. Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 141H - Elementary Spanish for Health Care 2 – Honors

3 credit hours - Three hours lecture weekly; one term.

This is an honors course. This course meets the Arts and Humanities General Education Requirement. Build upon knowledge learned in SPA 140 or SPA 111 with emphasis on speaking, reading and writing in a healthcare environment. Prereq(s): *Eligibility for Honors courses and SPA 111 or SPA 140 or one year of high school Spanish or permission of the department chair.* Crosslisted: *Also offered as SPA 141; credit is not given for both SPA 141H and SPA 141.* Note: *Credit is not given for both SPA 141H and SPA 112 and also SPA 112H. Not for native speakers. Typically offered at MC, AM, and OL; fall, spring, and summer terms.*

Course Outcomes

1. Identify the main idea and some pieces of information within written and spoken conversations about familiar topics and short informational or fictional texts with an emphasis on medical topics.
2. Communicate in spontaneous spoken conversations on both familiar, every day and medical topics, using a variety of practiced, memorized, or original phrases, simple sentences, and questions.
3. Present information on familiar, medical, and cultural topics using simple sentences and a variety of practiced, memorized, and some original phrases through spoken and written language.
4. Combine a variety of grammar structures and vocabulary to respond to a range of high novice-level writing and speaking prompts related to health care interactions.
5. Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 200 - Advanced Review of Spanish Grammar for Native Speakers

3 credit hours - Three hours weekly; one term.

A review of the essentials of Spanish grammar for students who speak Spanish as their primary language. Designed for students who have studied Spanish in a school setting and who wish to improve their written and oral skills in standard, academic Spanish.

Prereq(s): *Permission of department chair.*

Course Outcomes

Demonstrate correct usage of Standard Spanish.

- Use specific vocabulary to discuss parts of the sentence.
- Discuss and use different verb forms.
- Use direct and indirect object pronouns.
- Use adjectives and adverbs correctly.
- Explain and use the subjunctive versus indicative moods.

Describe and use the phonologic system.

- Describe the sounds made by individual letters.
- Describe and use diphthongs and triphthongs.
- Describe word stress and the use of accent marks.
- Describe syllable division.

Describe and use the orthographic system.

- Spell words correctly.
- Write using proper punctuation.
- Write using correct capitalization.
- Spell numbers correctly.

Discuss elements of Latino culture.

- Discuss the history of the Spanish language in the Spanish-speaking world.
- Discuss the history and evolution of the Latino community in the United States.
- Discuss representative works of literature written by Latinos.

SPA 211 - Intermediate Spanish 1

3 credit hours - Three hours weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build vocabulary and grammar skills for the purpose of reading, writing, listening and speaking. Discuss aspects of Spanish and Spanish-American culture. Prereq(s): *SPA 112 or SPA 119 or*

SPA 141 or two years of high school Spanish or permission of department chair. Crosslisted: Also offered as SPA 211H; credit is not given for both SPA 211 and SPA 211H. Note: Not for native speakers. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the main idea and key information in short, straightforward written and spoken conversations and informational and fictional texts.
- Request and provide information in conversations on familiar topics by creating simple sentences and asking appropriate follow-up questions.
- Present personal information about my life, activities and events, using simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of low intermediate-level writing and speaking prompts.
- Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 211H - Intermediate Spanish 1 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Build vocabulary and grammar skills for the purpose of reading, writing, listening and speaking. Discuss aspects of Spanish and Spanish-American culture. Prereq(s): *Eligibility for honors courses and SPA 112 or SPA 119 or SPA 141 or two years of high school Spanish or permission of department chair. Crosslisted: Also offered as SPA 211; credit is not given for both SPA 211 and SPA 211H. Note: Not for native speakers. Location(s) Typically Offered: Arnold Main Campus (MC), Arundel Mills (AM), and Online (OL) Term(s) Typically Offered: All terms*

Course Outcomes

Upon successful completion of this course, the student will be able to:

- Identify the main idea and key information in short, straightforward written and spoken conversations and informational and fictional texts.
- Request and provide information in conversations on familiar topics by creating simple sentences and asking appropriate follow-up questions.
- Present personal information about my life, activities and events, using simple sentences through spoken and written language.
- Combine a variety of grammar structures and vocabulary to respond to a range of low intermediate-level writing and speaking prompts.
- Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 212 - Intermediate Spanish 2

3 credit hours - Three hours weekly; one term.

Master intermediate vocabulary and grammar structures. Read short poetry and short fiction in Spanish. Discuss Spanish and Spanish-American culture. Prereq(s): *SPA 211 or three years of high school Spanish or permission of department chair. Crosslisted: Also offered as SPA 212H; credit not given for both SPA 212 and SPA 212H. Note: Not for native speakers. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer*

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the main idea and flow of events expressed in various time frames in conversations, discussions, and paragraph-length fictional texts.
2. Exchange information in conversations on familiar topics and some researched topics, creating sentences and series of sentences and asking a variety of follow-up questions.
3. Present a variety of familiar topics and some concrete topics I have researched, using sentences and series of connected sentences through spoken and written language.
4. Combine a variety of grammar structures and vocabulary to respond to a range of mid intermediate-level writing and speaking prompts.

5. Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 212H - Intermediate Spanish 2 – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. This course meets the Arts & Humanities General Education Requirement. Master intermediate vocabulary and grammar structures. Read short poetry and short fiction in Spanish. Discuss Spanish and Spanish-American culture. Prereq(s): *SPA 211 or three years of high school Spanish or permission of department chair.* Crosslisted: *Also offered as SPA 212; credit not given for both SPA 212 and SPA 212H.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall, spring, and summer

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Identify the main idea and flow of events expressed in various time frames in conversations, discussions, and paragraph-length fictional texts.
2. Exchange information in conversations on familiar topics and some researched topics, creating sentences and series of sentences and asking a variety of follow-up questions.
3. Present a variety of familiar topics and some concrete topics I have researched, using sentences and series of connected sentences through spoken and written language.
4. Combine a variety of grammar structures and vocabulary to respond to a range of mid intermediate-level writing and speaking prompts.
5. Formulate comparisons between the cultural products, practices, and perspectives of Spanish-speaking cultures and those of my own.

SPA 213 - Intermediate Spanish Grammar Review and Composition

3 credit hours - Three hours weekly; one term.

Review grammatical usage of Spanish, including present, past, future and conditional tenses, perfect forms, the subjunctive, comparatives and superlatives, expressions of time and object pronouns. Produce guided compositions, a significant component of the course. Prereq(s): *SPA 212 or four years of high school Spanish or permission of the department chair.* Crosslisted: *Also offered as SPA 213H; credit not given for both SPA 213 and 213H.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate correct usage of Modern Standard Spanish grammatical structures.
2. Use vocabulary in the target language.
3. Demonstrate target language reading skills.
4. Demonstrate target language writing skills.

SPA 213H - Intermediate Spanish Grammar Review and Composition – Honors

3 credit hours - Three hours weekly; one term.

This is an honors course. Review grammatical usage of Spanish, including present, past, future and conditional tenses, perfect forms, the subjunctive, comparatives and superlatives, expressions of time and object pronouns. Produce guided compositions, a significant component of the course. Prereq(s): *SPA 212 or four years of high school Spanish or permission of the department chair. Eligibility for Honors courses.* Crosslisted: *Also offered as SPA 213; credit not given for both SPA 213 and SPA 213H.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Demonstrate correct usage of Modern Standard Spanish grammatical structures.
2. Use vocabulary in the target language.
3. Demonstrate target language reading skills.
4. Demonstrate target language writing skills.

SPA 221 - Intermediate Spanish Conversation

3 credit hours - Three hours weekly; one term.

Emphasizes skills required to deal well in Spanish with everyday speaking situations. Enhance listening skills, pronunciation and intonation. Prereq(s): *SPA 212 or four years of high school Spanish or permission of department chair.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) Term(s) Typically Offered: Fall and spring

SPA 225 - Intermediate Spanish Civilization and Culture

3 credit hours - Three hours weekly; one term.

Intermediate course covering the history, culture, literature and fine arts of Spain. Taught in Spanish. Prereq(s): *SPA 212 or four years of high school Spanish or permission of department chair.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Explain in general terms the history of Spain.

- Discuss the formation of Spain.
- Describe medieval Spanish society.
- Explain how Spain became an empire.
- Discuss the Golden Age of Spain.
- Discuss major historical events of the 19th and 20th centuries in Spain.

Describe aspects of Spanish arts.

- Discuss the importance of representative poems and literature by Spanish authors.
- Discuss the importance of representative theatrical works by Spanish authors.
- Identify representative works of art by Spanish artists.
- List major movements in Spanish architecture.

Describe Spanish society and culture today

- Describe the political system of contemporary Spain.
- List the languages spoken in Spain today and the areas where they are spoken.
- Discuss the economy of contemporary Spain.
- Discuss aspects of social interaction in contemporary Spanish society.
- List major groups marginalized in contemporary Spain.
- Describe aspects of popular culture in contemporary Spain.

Demonstrate correct usage of standard Spanish.

- Describe events in the past, present, and future in Spanish.
- Express opinions in the target language.
- Debate topics in Spanish.
- Write short essays in Spanish.

SPA 226 - Intermediate Latin American Civilization and Culture

3 credit hours - Three hours weekly; one term.

Intermediate course covering the history, culture, literature and fine arts of Latin America. Taught in Spanish. Prereq(s): *SPA 212 or four years of high school Spanish or permission of department chair.* Note: *Not for native speakers.* Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Explain in general terms the history of Latin America.

- Discuss historical ties between Spain and Latin America.
- Discuss indigenous cultures and their contributions to society.
- Discuss the Age of Colonialism.
- Discuss the Age of Independence.
- List major revolutionary movements and political upheaval of the twentieth century in Latin America.

Describe aspects of Latin American arts.

- Identify and discuss the importance of representative poems and literature by Latin American writers.

Identify and discuss the importance of representative works of art by Latin American artists.
Identify different types of music originating in Latin America.

Describe Latin American society and culture today.

List the major religions that have influenced Latin American society.
Describe the family in Latin America.
List common holidays in Latin Americans.
Discuss economic problems in Latin America today.
Describe the interaction between the United States and different Latin American countries today.
Describe the role of Latinos in the United States.

Demonstrate correct usage of standard Spanish.

Describe events in the past, present, and future in Spanish.
Express opinions in the target language.
Debate topics in Spanish.
Write short essays in Spanish.

SPA 227 - Intermediate Spanish and Latin American Film

3 credit hours - Three hours lecture weekly; one term

Dissect and debate contemporary issues presented in Spanish and Latin American films such as: gender roles, immigration, political influence, censorship, socioeconomic ramifications, and globalization. Examine Hispanic values, beliefs, and perceptions through the lens of cinema. This course will be conducted entirely in Spanish. Prereq(s): *SPA 212 or four years of high school Spanish or permission of the department chair*. Note: *Open to native speakers by permission of the department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Fall and spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

Identify and synthesize in Spanish core arguments in Spanish and Latin American films.
Discuss in Spanish contemporary social issues.
Identify values, beliefs, and perceptions associated with Hispanic cultures.
Examine the sociocultural role of cinema in Hispanic cultures.

SPA 230 - Spanish for Business and Finance

3 credit hours - Three hours weekly; one term.

Covers business-related Spanish vocabulary and the concepts of international business and finance. Course includes a review of Spanish grammar and practice writing different types of communications in Spanish for hypothetical business situations. Prereq(s): *SPA 211 or three years of high school Spanish or permission of department chair*. Note: *Not for native speakers*.

SPA 260 - Oral Proficiency Interview Preparation

1 credit hour - Thirteen hours lecture, four hours lab; one term

Prepare for the Oral Proficiency Interview. Review and expand both vocabulary and grammatical structures required to hold predictable and concrete conversations within the target culture. Converse at a level that is easily understood by sympathetic interlocutor accustomed to dealing with non-native speakers. Prereq(s): *Twelve credits of SPA at the 200-level or permission from the department chair*. Location(s) Typically Offered: Arnold Main Campus (MC) and Online (OL) Term(s) Typically Offered: Spring

Course Outcomes

Upon successful completion of this course, the student will be able to:

1. Comprehend a sympathetic Spanish-speaking interlocutor.
2. Respond with minimal pauses to predictable and concrete questions from a sympathetic Spanish-speaking interlocutor.
3. Express thoughts in Spanish in a manner that can be understood by a sympathetic Spanish-speaking interlocutor.
4. Interact in Spanish at a level consistent with that of someone who achieves a ranking of Intermediate Mid or higher on the Oral Proficiency Interview.

SPA 280-299 - Special Topics in Spanish

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An in-depth examination of a topic in Spanish language or Spanish and Spanish-American civilization and culture. A maximum of eight credit hours earned from special topics courses may be used to satisfy degree requirements. Because special topics courses may

present transfer problems, students should work with their transfer institution or the Anne Arundel Community College transfer coordinator before enrolling. Refer to current schedule of classes for term offerings. Prereq(s): *SPA 212 or four years of high school Spanish or permission of department chair*. Note: Not for native speakers.

World Languages: Urdu

URD 111 - Elementary Urdu 1

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Develop an understanding of basic pronunciation and grammar necessary for reading, writing, and speaking in Urdu. Not for those who have experience with the Urdu language. Note: *Not for native speakers.*

Course Outcomes

- Demonstrate correct usage of Modern Standard Urdu grammatical structures
- Use elementary vocabulary in the target language
- Demonstrate reading and writing skills
- Demonstrate oral communication and listening skills
- Discuss aspects of Pakistani and South Asian culture

URD 112 - Elementary Urdu 2

3 credit hours - Three hours lecture weekly; one term.

This course meets the Arts & Humanities General Education Requirement. Build upon knowledge learned in URD 111 with emphasis on speaking, reading and writing. Prereq(s): *URD 111 or one year of high school Urdu or permission of department chair*. Note: *Not for native speakers.*

Course Outcomes

- Demonstrate correct usage of Modern Standard Urdu grammatical structures
- Use elementary vocabulary in the target language
- Demonstrate reading and writing skills
- Demonstrate oral communication and listening skills
- Discuss aspects of Pakistani and South Asian culture

Anne Arundel Community College 2024-2025 Catalog
Approved General Education Requirement Courses by Category

ARTS AND HUMANITIES

African American Studies

- AFA 214 - African American History 3 credit hours
- AFA 225 - African American Literature 3 credit hours
- AFA 228 - African American Art 3 credit hours

American Studies

- AMS 100 - Introduction to American Studies 3 credit hours
- AMS 102 - Introduction to Masculinity Studies 3 credit hours
- AMS 121 - Popular Culture in America 3 credit hours
- AMS 181 - Introduction to American Film 3 credit hours

Architecture

- ACH 221 - History of World Architecture 1 3 credit hours
- ACH 222 - History of World Architecture 2 3 credit hours

Art

- ART 100 - Two-Dimensional Design 3 credit hours
- ART 102 - Three-Dimensional Design 3 credit hours
- ART 125 - Drawing 1 3 credit hours
- ART 135 - Sculpture 1: Clay Modeling and Mixed Media 3 credit hours
- ART 145 - Ceramics 1 3 credit hours
- ART 180 - Introduction to Film 3 credit hours
- ART 181 - Introduction to American Film 3 credit hours
- ART 185 - Introduction to Art History 3 credit hours
- ART 209 - History of Western Art 1 3 credit hours
- ART 210 - History of Western Art 2 3 credit hours
- ART 212 - History of Photography 3 credit hours
- ART 219 - History of American Art 3 credit hours
- ART 220 - History of Modern Art 3 credit hours
- ART 221 - History of World Architecture 1 3 credit hours
- ART 222 - History of World Architecture 2 3 credit hours
- ART 228 - African American Art 3 credit hours
- ART 229 - Art of Traditional and Tribal Cultures 3 credit hours

Communications

- COM 101 - Introduction to Mass Media 3 credit hours
- COM 110 - Introduction to Interpersonal Communication 3 credit hours
- COM 111 - Fundamentals of Oral Communication 3 credit hours
- COM 116 - Fundamentals of Oral Communication for Non-Native Speakers 3 credit hours
- COM 141 - Group Communication and Leadership 3 credit hours
- COM 200 - Intercultural Communication 3 credit hours

Dance

- DAN 100 - Dance History 3 credit hours

English

- *Additional English courses are listed under linguistics and sophomore literature.*
- ENG 200 - Introduction to Creative Writing 3 credit hours

Gender and Sexuality Studies

- GSS 101 - Introduction to Women's Studies 3 credit hours
- GSS 102 - Introduction to Masculinity Studies 3 credit hours
- GSS 169 - Music, Power and Gender 3 credit hours
- GSS 210 - Images of Women 3 credit hours
- GSS 228 - Literature in English by Women 3 credit hours

History

- HIS 111 - Ancient and Medieval Western Civilizations 3 credit hours
- HIS 112 - Early Modern and Modern Western Civilizations 3 credit hours
- HIS 113 - World Civilizations to 1500 3 credit hours
- HIS 114 - World Civilizations Since 1500 3 credit hours
- HIS 142 - Introduction to Latin American History 3 credit hours
- HIS 211 - United States History through the Civil War 3 credit hours
- HIS 212 - United States History Since the Civil War 3 credit hours
- HIS 214 - African American History 3 credit hours

Humanities

- HUM 101 - Introduction to Fine Arts 3 credit hours
- HUM 151 - American Folk Arts 3 credit hours
- HUM 210 - Images of Women 3 credit hours

Legal Studies

- LGS 271 - Civil Rights Law 3 credit hours

Linguistics

- ENG 161 - Introduction to Linguistics 3 credit hours

Music

- MUS 100 - Music Appreciation 3 credit hours
- MUS 101 - Music Fundamentals 3 credit hours
- MUS 165 - Highlights of Music History: Jazz 3 credit hours
- MUS 169 - Music, Power and Gender 3 credit hours
- MUS 262 - World Music: Music as Culture 3 credit hours

Philosophy, Creative Thinking and Ethics

- PHL 111 - Introduction to Philosophy 3 credit hours
- PHL 115 - Critical and Creative Thinking in the Information Age 3 credit hours
- PHL 141 - Introduction to Logic 3 credit hours
- PHL 142 - Ethics 3 credit hours
- PHL 146 - Contemporary Moral Problems 3 credit hours

- PHL 194 - Ethics and the Information Age 3 credit hours
- PHL 201 - Western Religions 3 credit hours
- PHL 202 - Asian Religions 3 credit hours
- CTP 194 - Ethics and the Information Age 3 credit hours
- LIB 115 - Critical and Creative Thinking in the Information Age 3 credit hours

Sociology

- SOC 102 - Introduction to Masculinity Studies 3 credit hours

Sophomore Literature

- ENG 211 - World Literature 1 3 credit hours
- ENG 212 - World Literature 2 3 credit hours
- ENG 213 - British Literature 1 3 credit hours
- ENG 214 - British Literature 2 3 credit hours
- ENG 215 - Early American Literature: Colonial to 1865 3 credit hours
- ENG 216 - American Literature, 1865-1945: Realism to Modernism 3 credit hours
- ENG 217 - Contemporary American Literature: 1945-present 3 credit hours
- ENG 218 - Introduction to U.S. Latinx Literature 3 credit hours
- ENG 220 - The Bible as Literature 3 credit hours
- ENG 221 - Introduction to Shakespeare 3 credit hours
- ENG 222 - The American Novel 3 credit hours
- ENG 223 - The British Novel 3 credit hours
- ENG 224 - Modern American Poetry 3 credit hours
- ENG 225 - African American Literature 3 credit hours
- ENG 226 - Ethnic American Literature 3 credit hours
- ENG 227 - Literary Nonfiction 3 credit hours
- ENG 228 - Literature in English by Women 3 credit hours
- ENG 235 - Modern Drama 3 credit hours
- ENG 250 - Literature of the Chesapeake Bay 3 credit hours

Theater Arts

- THA 111 - Introduction to Theater 3 credit hours
- THA 132 - Acting 1 3 credit hours
- THA 180 - Play Production 3 credit hours

World Languages

- ARB 111 - Elementary Arabic 1 3 credit hours
- ARB 112 - Elementary Arabic 2 3 credit hours
- ARB 211 - Intermediate Arabic 1 3 credit hours
- ASL 111 - American Sign Language 1 3 credit hours
- ASL 112 - American Sign Language 2 3 credit hours
- ASL 113 - American Sign Language 3 3 credit hours
- CHI 111 - Elementary Chinese 1 3 credit hours
- CHI 112 - Elementary Chinese 2 3 credit hours
- CHI 211 - Intermediate Chinese 1 3 credit hours
- FRE 111 - Elementary French 1 3 credit hours
- FRE 112 - Elementary French 2 3 credit hours
- FRE 211 - Intermediate French 1 3 credit hours
- GER 111 - Elementary German 1 3 credit hours
- GER 112 - Elementary German 2 3 credit hours

- GER 211 - Intermediate German 1 3 credit hours
- GRK 111 - Elementary Greek 1 3 credit hours
- GRK 112 - Elementary Greek 2 3 credit hours
- HEB 111 - Elementary Hebrew 1 3 credit hours
- HEB 112 - Elementary Hebrew 2 3 credit hours
- HEB 113 - Elementary Biblical Hebrew 1 3 credit hours
- HEB 114 - Elementary Biblical Hebrew 2 3 credit hours
- ITA 111 - Elementary Italian 1 3 credit hours
- ITA 112 - Elementary Italian 2 3 credit hours
- ITA 211 - Intermediate Italian 1 3 credit hours
- JPN 111 - Elementary Japanese 1 3 credit hours
- JPN 112 - Elementary Japanese 2 3 credit hours
- JPN 211 Intermediate Japanese 1 3 credit hours
- KOR 111 - Elementary Korean 1 3 credit hours
- KOR 112 - Elementary Korean 2 3 credit hours
- KOR 211 - Intermediate Korean 1 3 credit hours
- LAT 111 - Elementary Latin 1 3 credit hours
- LAT 112 - Elementary Latin 2 3 credit hours
- PRT 111 - Elementary Portuguese 1 3 credit hours
- PRT 112 - Elementary Portuguese 2 3 credit hours
- PRT 211 - Intermediate Portuguese 1 3 credit hours
- RUS 111 - Elementary Russian 1 3 credit hours
- RUS 112 - Elementary Russian 2 3 credit hours
- RUS 211 - Intermediate Russian 1 3 credit hours
- SPA 111 - Elementary Spanish 1 3 credit hours
- SPA 112 - Elementary Spanish 2 3 credit hours
- SPA 140 - Elementary Spanish for Health Care 1 3 credit hours
- SPA 141 - Elementary Spanish for Health Care 2 3 credit hours
- SPA 211 - Intermediate Spanish 1 3 credit hours
- SPA 119 - Review of Elementary Spanish 1 and 2 3 credit hours
- URD 111 - Elementary Urdu 1 3 credit hours
- URD 112 - Elementary Urdu 2 3 credit hours

BIOLOGICAL AND PHYSICAL SCIENCES

Anthropology

- ANT 120 - Introduction to Biological Anthropology 3 credit hours

Astronomy

- AST 112 - Stars and Stellar Systems 4 credit hours
- AST 114 - The Solar System 4 credit hours
- AST 120 - Life in the Universe 3 credit hours

Biology

- BIO 100 - Introduction to Biology 4 credit hours
- BIO 101 - Fundamentals of Biology 4 credit hours
- BIO 102 - Biology for the 21st Century 3 credit hours
- BIO 103 - General Botany 4 credit hours
- BIO 104 - Principles of Evolution and Ecology 4 credit hours
- BIO 105 - General Zoology 4 credit hours
- BIO 107 - Environmental Science 4 credit hours

- BIO 108 - Ecosystems and the Environment 3 credit hours
- BIO 113 - Sustainable Horticulture 4 credit hours
- BIO 122 - Fundamentals of Ecology Travel Study 1 4 credit hours
- BIO 123 - Fundamentals of Ecology Travel Study 2 3 credit hours
- BIO 130 - Drones Sensing the World Around Us - Designs by Nature and Technology 3 credit hours
- BIO 135 - Principles of Nutrition 3 credit hours
- BIO 136 - Principles of Nutrition and Laboratory 4 credit hours
- BIO 152 - Biology of Aging 3 credit hours
- BIO 215 - Restoration Ecology 3 credit hours
- BIO 220 - Genetics with Laboratory 4 credit hours
- BIO 223 - General Microbiology 4 credit hours
- BIO 230 - Structure and Function of the Human Body 4 credit hours
- BIO 231 - Human Biology 1 4 credit hours
- BIO 232 - Human Biology 2 4 credit hours
- BIO 233 - Anatomy and Physiology 1 4 credit hours
- BIO 234 - Anatomy and Physiology 2 4 credit hours

Chemistry

- CHE 103 - World of Chemistry 3 credit hours
- CHE 111 - General Chemistry 1 4 credit hours
- CHE 112 - General Chemistry 2 4 credit hours
- CHE 113 - Fundamentals of Organic and Biochemistry 4 credit hours
- CHE 115 - General, Organic and Introduction to Biochemistry 4 credit hours

Geography

- GEO 101 - Physical Geography 4 credit hours

Physical Science

- PHS 100 - General Physical Science 4 credit hours
- PHS 109 - General Oceanography 3 credit hours
- PHS 111 - History of Science 3 credit hours
- PHS 113 - Physical Geology 4 credit hours
- PHS 119 - Fundamentals of Weather 4 credit hours
- PHS 120 - Global Climate Change 3 credit hours
- PHS 200 - Earth and Space Science 4 credit hours

Physics

- PHY 105 - How Things Work 3 credit hours
- PHY 111 - Fundamentals of Physics 1 4 credit hours
- PHY 112 - Fundamentals of Physics 2 4 credit hours
- PHY 120 - Sound and Light - An Interdisciplinary Approach 3 credit hours
- PHY 211 - General Physics 1 4 credit hours
- PHY 212 - General Physics 2 4 credit hours

ENGLISH COMPOSITION

English

Effective with the start of the Fall 2017 term, Maryland regulations state that students must complete one course in English composition with a grade of C or better.

- ENG 101 - Academic Writing and Research 1 3 credit hours
- ENG 101A - Academic Writing and Research 1 3 credit hours
- ENG 102 - Academic Writing and Research 2 3 credit hours

MATHEMATICS

Mathematics

- MAT 100 - The Nature of Mathematics 3 credit hours
- MAT 133 - Finite Mathematics 3 credit hours
- MAT 135 - Statistics 3 credit hours
- MAT 137 - College Algebra 3 credit hours
- MAT 145 - Precalculus 1 3 credit hours
- MAT 146 - Precalculus 2 3 credit hours
- MAT 151 - Accelerated Precalculus 4 credit hours
- MAT 191 - Calculus and Analytic Geometry 1 4 credit hours
- MAT 192 - Calculus and Analytic Geometry 2 4 credit hours
- MAT 202 - Linear Algebra 4 credit hours
- MAT 221 - Fundamental Concepts of Mathematics 1 4 credit hours
- *Intended primarily for elementary education and early childhood education.*
- MAT 222 - Fundamental Concepts of Mathematics 2 4 credit hours
- *Intended primarily for elementary education and early childhood education.*
- MAT 230 - Elementary Calculus (For Business and Social Sciences) 3 credit hours
- MAT 235 - Introduction to Data Science 4 credit hours

SOCIAL AND BEHAVIORAL SCIENCES

African American Studies

- AFA 214 - African American History 3 credit hours

American Studies

- AMS 100 - Introduction to American Studies 3 credit hours
- AMS 102 - Introduction to Masculinity Studies 3 credit hours
- AMS 121 - Popular Culture in America 3 credit hours
- AMS 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies 3 credit hours

Anthropology

- ANT 121 - Introduction to Cultural Anthropology 3 credit hours
- ANT 123 - Introduction to Archaeology 3 credit hours

Business

- BPA 105 - Exploring the Future 3 credit hours
- BPA 113 - Consumer and Personal Finance 3 credit hours

Communications

- COM 200 - Intercultural Communication 3 credit hours

Criminal Justice

- CJS 111 - Introduction to Criminal Justice 3 credit hours

Economics

- ECO 116 - Inside the Global Economy 3 credit hours
- ECO 121 - Introduction to Economics 3 credit hours
- ECO 211 - Principles of Economics 1 3 credit hours
- ECO 212 - Principles of Economics 2 3 credit hours

Gender and Sexuality Studies

- GSS 101 - Introduction to Women's Studies 3 credit hours
- GSS 102 - Introduction to Masculinity Studies 3 credit hours
- GSS 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies 3 credit hours

Geography

- GEO 100 - Introduction to Geography 3 credit hours
- GEO 102 - World Regional Geography 3 credit hours
- GEO 103 - Cultural Geography 3 credit hours

History

- HIS 111 - Ancient and Medieval Western Civilizations 3 credit hours
- HIS 112 - Early Modern and Modern Western Civilizations 3 credit hours
- HIS 113 - World Civilizations to 1500 3 credit hours
- HIS 114 - World Civilizations Since 1500 3 credit hours
- HIS 211 - United States History through the Civil War 3 credit hours
- HIS 212 - United States History Since the Civil War 3 credit hours
- HIS 214 - African American History 3 credit hours

Homeland Security

- HLS 111 - Introduction to Homeland Security 3 credit hours

Hotel/Restaurant Management

- HRM 232 - World Culture and Cuisine: A Social Science Perspective 3 credit hours

Human Services

- HUS 150 - Introduction to Aging Studies 3 credit hours

Legal Studies

- LGS 100 - Introduction to the Law 3 credit hours
- LGS 217 - Constitutional Law 3 credit hours

Political Science

- PLS 111 - American Government 3 credit hours
- PLS 113 - State and Local Government 3 credit hours
- PLS 115 - Introduction to Political Science 3 credit hours

- PLS 200 - International Relations 3 credit hours

Psychology

- PSY 111 - Introduction to Psychology 3 credit hours
- PSY 211 - Developmental Psychology 3 credit hours
- PSY 212 - Personality Psychology 3 credit hours
- PSY 214 - Abnormal Psychology 3 credit hours
- PSY 223 - Social Psychology 3 credit hours

Sociology

- SOC 102 - Introduction to Masculinity Studies 3 credit hours
- SOC 105 - Exploring the Future 3 credit hours
- SOC 111 - Introduction to Sociology 3 credit hours
- SOC 122 - Social Problems 3 credit hours
- SOC 150 - Introduction to Aging Studies 3 credit hours
- SOC 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies 3 credit hours

DIVERSITY REQUIREMENT COURSES (GENERAL EDUCATION)

List of Approved Individual Courses

*Taking any one of these courses will allow students to satisfy the Diversity Requirement and also **ONE** of the five general education categories: Arts and Humanities, Biological and Physical Sciences, English Composition, Mathematics, or Social and Behavioral Sciences. Please consult your academic advisor for further guidance.*

- AFA 214 - African American History 3 credit hours
- AFA 225 - African American Literature 3 credit hours
- AFA 228 - African American Art 3 credit hours
- AMS 102 - Introduction to Masculinity Studies 3 credit hours
- AMS 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies 3 credit hours
- ANT 121 - Introduction to Cultural Anthropology 3 credit hours
- ART 220 - History of Modern Art 3 credit hours
- ART 228 - African American Art 3 credit hours
- ART 229 - Art of Traditional and Tribal Cultures 3 credit hours
- BPA 105 - Exploring the Future 3 credit hours
- CJS 111- Introduction to Criminal Justice 3 credit hours
- CJS 111H - Introduction to Criminal Justice - Honors 3 credit hours
- COM 200 - Intercultural Communication 3 credit hours
- DAN 100 - Dance History 3 credit hours
- ECO 116 - Inside the Global Economy 3 credit hours
- ENG 218 - Introduction to U.S. Latinx Literature 3 credit hours
- ENG 225 - African American Literature 3 credit hours
- ENG 226 - Ethnic American Literature 3 credit hours
- ENG 228 - Literature in English by Women 3 credit hours
- GSS 101 - Introduction to Women's Studies 3 credit hours
- GSS 102 - Introduction to Masculinity Studies 3 credit hours
- GSS 113 - Women's Health 3 credit hours
- GSS 169 - Music, Power and Gender 3 credit hours
- GSS 210 - Images of Women 3 credit hours
- GSS 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies 3 credit hours
- GSS 228 - Literature in English by Women 3 credit hours
- HEA 113 - Women's Health 3 credit hours

- HIS 214 - African American History 3 credit hours
- HLS 111 - Introduction to Homeland Security 3 credit hours
- HLS 111H - Introduction to Homeland Security - Honors 3 credit hours
- HRM 232 - World Culture and Cuisine: A Social Science Perspective 3 credit hours
- HUM 210 - Images of Women 3 credit hours
- HUS 150 - Introduction to Aging Studies 3 credit hours
- LGS 271 - Civil Rights Law 3 credit hours
- MUS 169 - Music, Power and Gender 3 credit hours
- MUS 262 - World Music: Music as Culture 3 credit hours
- PHL 146 - Contemporary Moral Problems 3 credit hours
- PSY 211 - Developmental Psychology 3 credit hours
- PSY 214 - Abnormal Psychology 3 credit hours
- SOC 102 - Introduction to Masculinity Studies 3 credit hours
- SOC 105 - Exploring the Future 3 credit hours
- SOC 111 - Introduction to Sociology 3 credit hours
- SOC 150 - Introduction to Aging Studies 3 credit hours
- SOC 212 - Introduction to Lesbian, Gay, Bisexual and Transgender Studies 3 credit hours

DIVERSITY REQUIREMENT COURSES (NON GENERAL EDUCATION)

List of Approved Individual Courses

*Taking any one of these courses will allow students to satisfy the Diversity Requirement. These individual courses will **not** satisfy any general education category. Please consult your academic advisor for further guidance.*

- AFA 101 - Introduction to African American Studies 3 credit hours
- AFA 102 - Psychology of African Americans 3 credit hours
- AMS 101 - Introduction to African American Studies 3 credit hours
- AMS 211 - Gender and Mass Media in the United States 3 credit hours
- AMS 225 - Cultural Representations of Disability, Gender and Sexuality in the U.S. 3 credit hours
- ART 227 - Asian Art 3 credit hours
- ASL 120 - Introduction to the American Deaf Community 3 credit hours
- BPA 173 - Managing and Valuing Workforce Diversity 3 credit hours
- BPA 174 - Women and Business 3 credit hours
- CJS 229 - Women, Crime and Prison 3 credit hours
- EDU 214 - Introduction to Special Education 3 credit hours
- GSS 211 - Gender and Mass Media in the United States 3 credit hours
- GSS 216 - Human Sexuality 3 credit hours
- GSS 217 - Women of the Western World 3 credit hours
- GSS 218 - History of Women in America: 1607-Present 3 credit hours
- GSS 221 - Psychology of Men 3 credit hours
- GSS 222 - Psychology of Women 3 credit hours
- GSS 223 - Philosophy and Gender 3 credit hours
- GSS 225 - Cultural Representations of Disability, Gender and Sexuality in the U.S. 3 credit hours
- HIS 215 - Civil Rights Era 3 credit hours
- HIS 217 - Women of the Western World 3 credit hours
- HIS 218 - History of Women in America: 1607-Present 3 credit hours
- HLS 261 - The Middle East and U.S. National Security 3 credit hours
- HUS 101 - Human Service and Addiction Counseling Ethics in Practice 3 credit hours
- LGS 270 - Gender and the Law 3 credit hours
- PHL 223 - Philosophy and Gender 3 credit hours
- PSY 102 - Psychology of African Americans 3 credit hours
- PSY 216 - Human Sexuality 3 credit hours
- PSY 221 - Psychology of Men 3 credit hours
- PSY 222 - Psychology of Women 3 credit hours

- PSY 224 - Multicultural Psychology 3 credit hours
- SOC 225 - Cultural Representations of Disability, Gender and Sexuality in the U.S. 3 credit hours

List of Approved Course Sequences

Following each one of these sequences allows students to meet the Diversity Requirement in the corresponding degree. These course sequences will **not** satisfy any general education category. Please consult your academic advisor for further guidance.

EMT-Paramedic (AAS) Sequence:

- EMT 115 - Introduction to Paramedic 2 credit hours
- EMT 118 - Paramedic 1 13 credit hours
- EMT 119 - Paramedic 2 13 credit hours
- EMT 215 - Paramedic 3 5 credit hours
- EMT 270 - Paramedic Capstone 7 credit hours

Physical Therapist Assistant (AAS) Sequence:

- PTA 101 - Introduction to Physical Therapist Assistant 3 credit hours
- PTA 102 - Physical Therapist Assistant 1 6 credit hours
- PTA 104 - Physical Therapist Assistant 2 6 credit hours
- PTA 105 - Clinical Practice 1 2 credit hours
- PTA 106 - Kinesiology 6 credit hours
- PTA 201 - Physical Therapist Assistant 3 4 credit hours
- PTA 205 - Current Issues and Trends Affecting the Physical Therapist Assistant 1 credit hour

TECHNOLOGY REQUIREMENT COURSES (GENERAL EDUCATION)

List of Approved Individual Courses

Taking any one of these courses will allow students to satisfy the Technology Requirement and also **ONE** general education elective. Please consult your academic advisor for further guidance.

- CTA 100 - Computing and Information Technology 3 credit hours
- CTP 103 - Theories and Applications of Digital Technology 3 credit hours
- CTP 115 - Introductory Object-Oriented Program Analysis and Design 4 credit hours
- CTS 107 - Cyber Essentials 3 credit hours
- EGR 120 - Introduction to Engineering Design 3 credit hours
- GEO 240 - Introduction to Geographic Information Systems 3 credit hours
- UAS 111 - Introduction to Drone Technology 3 credit hours

TECHNOLOGY REQUIREMENT COURSES (NON GENERAL EDUCATION)

List of Approved Individual Courses

Taking any one of these courses will allow students to satisfy the Technology Requirement. These individual courses will **not** satisfy any general education category. Please consult your academic advisor for further guidance.

- ART 106 - Introduction to Digital Design 3 credit hours
- EDU 214 - Introduction to Special Education 3 credit hours
- LGS 112 - Law Office Practice and Technology 3 credit hours
- MUS 230 – Recording Industry Techniques 1 3 credit hours

List of Approved Course Sequences

*Following each one of these sequences allows students to meet the Technology Requirement in the corresponding degree. These course sequences will **not** satisfy any general education category. Please consult your academic advisor for further guidance.*

Dental Hygiene (AAS) Sequence:

- DHY 102 - Dental Hygiene Clinical 1 2 credit hours
- DHY 108 - Dental Hygiene Radiology 4 credit hours

Emergency Medical Services - Paramedic (AAS) Sequence:

- EMS 101 - Introduction to Advanced EMS Practice 6 credit hours
- EMS 111 - Paramedic 1 7 credit hours
- EMS 121 - Paramedic 2 6 credit hours
- EMS 131 - Paramedic 3 7 credit hours
- EMS 141 - Paramedic 4 6 credit hours
- EMS 251 - Paramedic 5 5 credit hours
- EMS 271 - Paramedic Capstone 7 credit hours

Nursing (AS) Sequence:

- NUR 220 - Nursing of Adult Clients in Health and Illness 2 5 credit hours
- NUR 221 - Nursing Care of Children and Families 4 credit hours
- NUR 230 - Nursing Management of Clients with Complex Health Problems and Transition into Nursing 9 credit hours

Physical Therapist Assistant (AAS) Sequence:

- PTA 101 - Introduction to Physical Therapist Assistant 3 credit hours
- PTA 102 - Physical Therapist Assistant 1 6 credit hours
- PTA 104 - Physical Therapist Assistant 2 6 credit hours
- PTA 106 - Kinesiology 6 credit hours
- PTA 201 - Physical Therapist Assistant 3 4 credit hours
- PTA 205 - Current Issues and Trends Affecting the Physical Therapist Assistant 1 credit hour

Radiologic Technology (AAS) Sequence:

- RAD 111 - Radiographic Procedures 1: Positioning and Patient Care 4 credit hours
- RAD 231 - Radiographic Procedures 4 3 credit hours
- RAD 250 - Radiation Biology, Protection, and Safety 4 credit hours
- RAD 252 - Clinical Radiography 5 6 credit hours

WELLNESS REQUIREMENT COURSES (GENERAL EDUCATION)

List of Approved Individual Courses

*Taking any one of these courses will allow students to satisfy the Wellness Requirement and also **ONE** of the five general education categories: Arts and Humanities, Biological and Physical Sciences, English Composition, Mathematics, or Social and Behavioral Sciences. Please consult your academic advisor for further guidance.*

- BIO 135 - Principles of Nutrition 3 credit hours

- EMT 104 - Emergency Medical Care, CPR & AED 3 credit hours
- GSS 113 - Women's Health 3 credit hours
- HEA 100 - Assessment and Theory of Fitness and Health 3 credit hours
- HEA 111 - Personal and Community Health 3 credit hours
- HEA 113 - Women's Health 3 credit hours
- HEA 114 - Components of Personal Fitness and Wellness 3 credit hours
- HEA 115 - Health Implications of Violence 3 credit hours
- HEA 116 - The Health Consumer in Today's World 3 credit hours
- HEA 120 - Stress, Science and Well-Being 3 credit hours
- HEA 150 - Advanced First Aid, CPR and AED 3 credit hours

WELLNESS REQUIREMENT COURSES (NON GENERAL EDUCATION)

List of Approved Individual Courses

*Taking any one of these courses will allow students to satisfy the Wellness Requirement. These individual courses will **not** satisfy any general education category. Please consult your academic advisor for further guidance.*

- ACH 242 - Environmental Systems for Design 3 credit hours
- EDU 135 - Children's Health, Nutrition and Safety 3 credit hours
- GSS 117 - Healthy Aging for Women 3 credit hours
- HEA 117 - Healthy Aging For Women 3 credit hours

List of Approved Course Sequences

*Following each one of these sequences allows students to meet the Wellness Requirement in the corresponding degree. These course sequences will **not** satisfy any general education category. Please consult your academic advisor for further guidance.*

Dental Hygiene (AAS) Sequence

- DHY 110 - Dental Hygiene Theory 2 2 credit hours
- DHY 120 - Dental Hygiene Biochemistry and Nutrition 2 credit hours

Emergency Medical Services - Paramedic (AAS) Sequence

- EMS 101 - Introduction to Advanced EMS Practice 6 credit hours
- EMS 111 - Paramedic 1 7 credit hours
- EMS 121 - Paramedic 2 6 credit hours
- EMS 131 - Paramedic 3 7 credit hours
- EMS 141 - Paramedic 4 6 credit hours
- EMS 251 - Paramedic 5 5 credit hours
- EMS 271 - Paramedic Capstone 7 credit hours

Hotel/Restaurant Management - Culinary Arts, Baking & Pastry, Hospitality Management (AAS) Sequence

- HRM 119 - Certification in Sanitation 1 credit hour
- HRM 190 - Food Science and Nutritional Cooking 3 credit hours
- HRM 232 - World Culture and Cuisine: A Social Science Perspective 3 credit hours

Medical Assisting (AAS) Sequence

- MDA 112 - Pharmacology for Health Professions 3 credit hours

- MDA 142 - Clinical Medical Assisting 2 4 credit hours

Medical Laboratory Technician (AAS) Sequence:

- MLT 100 - Introduction to the Medical Laboratory 4 credit hours
- MLT 101 - Urinalysis and Body Fluids 3 credit hours
- MLT 202 - Clinical Microbiology 4 credit hours
- MLT 203 - Clinical Chemistry 4 credit hours
- MLT 204 - Clinical Immunology/Immunohematology 4 credit hours
- MLT 205 - Clinical Hematology 4 credit hours
- MLT 206 - Advanced Clinical Chemistry 2 credit hours
- MLT 276 - Clinical Hematology Practicum 2 credit hours
- MLT 277 - Clinical Chemistry Practicum 2 credit hours
- MLT 278 - Clinical Microbiology Practicum 2 credit hours
- MLT 279 - Clinical Immunohematology Practicum 2 credit hours

Nursing (AS) Sequence:

- NUR 230 - Nursing Management of Clients with Complex Health Problems and Transition into Nursing 9 credit hours
- NUR 231 - Nursing Perspectives 2 1 credit hour

Physical Therapist Assistant (AAS) Sequence:

- PTA 101 - Introduction to Physical Therapist Assistant 3 credit hours
- PTA 102 - Physical Therapist Assistant 1 6 credit hours
- PTA 104 - Physical Therapist Assistant 2 6 credit hours
- PTA 105 - Clinical Practice 1 2 credit hours
- PTA 106 - Kinesiology 6 credit hours
- PTA 201 - Physical Therapist Assistant 3 4 credit hours
- PTA 202 - Physical Therapist Assistant 4 4 credit hours
- PTA 203 - Clinical Practice 2 4 credit hours
- PTA 204 - Physical Therapist Assistant 5 3 credit hours
- PTA 206 - Clinical Practice 3 4 credit hours
- PTA 207 - Clinical Practice 4 4 credit hours

Radiologic Technology (AAS) Sequence:

- RAD 111 - Radiographic Procedures 1: Positioning and Patient Care 4 credit hours
- RAD 121 - Radiographic Procedures 2 5 credit hours
- RAD 123 - Imaging Equipment Maintenance and Operation 3 credit hours
- RAD 231 - Radiographic Procedures 4 3 credit hours
- RAD 250 - Radiation Biology, Protection, and Safety 4 credit hours

Surgical Technology (AAS) Sequence:

Completion of the Surgical Technology (A.A.S.) satisfies the college's Wellness Requirement.

About the College

About Anne Arundel Community College

Spotlight on AACC's Diversity and Inclusion

We work hard to promote diversity and inclusion here at AACC. Two of our faculty members are coordinating a Curriculum Transformation Project to help all faculty incorporate issue of diversity into their courses.

>>read more

- Mission & History
- Administration & Faculty
- Accreditations
- Schools of Study
- About Our Credit Programs of Study

>>read more

Academic & Non-Academic Supports

Spotlight on SASP Program

If you are still figuring out education goals and career choices, we can help you explore different directions and point you to the right path that can align interests, abilities education and long-term career opportunities.

>>read more

- Academic Advising
- Transfer Services
- Student Achievement and Success Program (SASP)
- Tutoring Services
- Writing Centers
- Other Support

>>read more

Campus Life and Student Engagement

Spotlight on Student Leadership

AACC has a variety of opportunities to help students get the most out of their time here. "Anne Arundel has laid the foundation for me to redefine myself...", says Michelle Moore, student athlete and student leader.

>>read more

- Athletics & Events
- Bookstore, Dining & Campus Amenities
- Clubs & SGA
- Childcare
- Health & Personal Counseling Services

>>read more

About Anne Arundel Community College (AACC)

Anne Arundel Community College Mission

With learning as its central mission, Anne Arundel Community College responds to the needs of our diverse community by offering high quality, affordable, accessible and innovative lifelong learning opportunities.

College Vision

Anne Arundel Community College is a premier learning community that transforms lives to create an engaged and inclusive society.

Values

Community and Relationships

Opportunity

Positivity

Innovation and Creativity

Equity and Inclusion

Philosophy

Anne Arundel Community College strives to embody the basic convictions of our country's democratic ideal: that individuals be given full opportunity to discover and develop their talents and interests; to pursue their unique potentials; and to achieve an intellectually, culturally and economically satisfying relationship with society.

Strategic Plan

Goals

Entry and Engagement - Increase engagement with students, employees, and community.

Progress and Growth - Increase progress, growth, and connection of students and employees.

Retention and Completion - Increase retention and completion of all students.

Objectives

Excellence - Ensure that every interaction contributes to a high-quality education.

Innovation - Innovate to ensure equity in college systems and practices to provide positive student and employee experiences.

Engagement - Create an equitable culture of engagement where each member of the college community is committed to providing high-quality student and employee experiences.

Resources - Allocate resources in support of the college mission in responsible, sustainable, and equitable ways.

For more information on AACC's strategic plan, visit <https://www.aacc.edu/about/mission-and-vision/strategic-plan/>.

Institution and Program Accreditations

Anne Arundel Community College is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, Pa. 19104 (215-662-5606 or <http://www.msche.org>) and approved by the Maryland Higher Education Commission.

The Emergency Medical Services - Paramedic (A.A.S.) program is accredited nationally by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and in the state by the Maryland Institute for Emergency Medical Services Systems (MIEMSS). The Hotel/Restaurant Management, A.A.S. (Hospitality Management Concentration) degree is accredited by the Accrediting Commission for Programs in Hospitality Administration (ACPHA). The Hotel/Restaurant Management, A.A.S. (Culinary Arts Concentration) degree is accredited by the American Culinary Federation Education Foundation Accrediting Commission (ACFEFAC). The Human Services (A.A.S.) program is accredited by the Council for Standards in Human Service Education (CSHSE). The Medical Assisting (certificate) program is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Medical Assisting Education Review Board. The National Accrediting Agency for Clinical Laboratory Sciences has accredited the Medical Laboratory Technician (A.A.S.) program. The Nursing (A.S.) program is accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN), 3390 Peachtree Road NE, Suite 1400, Atlanta, GA 30326 (404-975-5000 or www.acenursing.org/) and approved by the State of Maryland Board of Nursing. For information about accreditation of the Physical Therapist Assistant program, see the Physical Therapist Assistant (A.A.S.) section of this catalog. The Radiologic Technology (A.A.S.) program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The Surgical Technology (A.A.S.) program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

The Architecture and Interior Design (A.A.S.) degree option is approved by the American Institute of Architects. The paralegal studies associate of applied science (Paralegal Studies (A.A.S.)) and certificate (Paralegal Studies (certificate)) programs are approved by the American Bar Association. The AACC Testing Center received accreditation from the National College Testing Association.

History

On Jan. 2, 1961, the county Board of Education established Anne Arundel Community College, a comprehensive community center of higher learning. The college opened in September that year for 270 students in late-afternoon and evening classes in temporary quarters at Severna Park High School. Dr. Andrew G. Truxal became our first president. The college moved to its own 165-acre Arnold campus in September 1967. The Middle States Association of Colleges and Secondary Schools, now known as the Middle States Commission on Higher Education, awarded the college full accreditation in April 1968.

Dr. Robert P. Ludlum became the second college president upon the retirement of Dr. Truxal Aug. 1, 1968. He oversaw the expansion of the college on the Arnold campus and started the practice of offering credit and noncredit classes in locations around the county.

Ludlum began the collaboration with Fort Meade so transient soldiers could continue their studies and granted tuition waivers to those older than 60, both of which continue today. He retired June 30, 1976.

Dr. Justus D. Sundermann served as the third president, July 1, 1976 to June 30, 1979, during which he established several programs ongoing today, including Weekend College, tutoring and contractual training with agencies and businesses. He opened the college's first location in Glen Burnie and the Child Development Center.

Dr. Thomas E. Florestano became the fourth president July 1, 1979 until his retirement June 30, 1994. During his tenure, the campus expanded in size to 230 acres and grew in enrollment, programs and services as a comprehensive community college. He collaborated with the county government and established two centers still active today, the Center for Environmental Studies and the Center for Study of Local Issues. The Glen Burnie Town Center, the college's current Glen Burnie location, opened during his term.

Dr. Martha A. Smith served as the college's fifth president from Aug. 1, 1994-Aug. 1, 2012. With a mantra of students first, she shared a vision that the college would meet the call for higher expectations, respond to the challenges of a global economy and educate its students to be among the best-prepared citizens and workers of the world. During her term, AACC continued expansion, adding the Hotel, Culinary Arts and Tourism Institute in Glen Burnie, the AACC at Arundel Mills Regional Higher Education Center, Center for Cyber and Professional Training and Sales and Service Training, all at Arundel Mills in Hanover and several new or renovated classroom buildings and a Student Services Center to the Arnold campus. In December 2009, AACC launched Student Success 2020, a 10-year commitment to help more students succeed that includes a goal of doubling the number of degrees, certificates and workforce credentials earned by the year 2020.

The college's sixth president, Dawn Lindsay, Ed.D., began her presidency Aug. 1, 2012. A Maryland native, Dr. Lindsay came to the college after serving as president of Glendale Community College in California. Her vision is to create a synergy on campus that stimulates innovation and collaboration, building on a foundation of transparency, honesty and trust that are hallmarks of the philosophy of servitude leadership, a style she has embraced. She aims to make sure the college's programs are sustainable over time, AACC is accountable to its stakeholders, the college delivers value and it remains true to its mission with commitment to learning at its core.

Schools of Study

Anne Arundel Community College has five Schools of Study with programs that lead to a variety of associates degrees, certificates and letters of recognition.

School of Business and Law
School of Health Sciences
School of Liberal Arts

School of Science, Technology & Education
School of Continuing Education and Workforce Development

Antiracism, Diversity, Equity and Inclusion

The vision of Anne Arundel Community College ("College") is to "transform lives to create an engaged and inclusive society." As a product of and a contributor to Anne Arundel County's workforce, culture, and general demographics, the College values the uniqueness of every individual, including differences in life experiences, knowledge, viewpoints, innovation, self-expression, capabilities, and talents.

Antiracism is the practice of identifying, challenging, and changing the values, structures and behaviors that perpetuate systemic racism.

Diversity includes all the ways in which people differ, and it encompasses all the different characteristics that make one individual or group different from another, including but not limited to race, color, ethnicity, gender, sex, gender identity, age, national origin, religion, disability, sexual orientation, socioeconomic status, education, marital status, language, genetic information, military or veteran status, and physical appearance. It also involves different ideas, perspectives, and values.

Equity is providing everyone with access to the same opportunities and potential for success. Equity ensures fairness by adjusting for differences in advantages and barriers.

Inclusion is authentically bringing traditionally excluded individuals and/or groups into processes, activities, and decision and policy making in a way that shares power.

The College embraces and promotes antiracism, diversity, equity, and inclusion and fosters, cultivates, and sustains antiracism, diversity, equity and inclusion in its activities, admissions, community involvement, curriculum, employment, policies, and programs.

College-Wide Core Competencies

Consistent with the institutional mission and vision, Anne Arundel Community College expects students to gain and demonstrate appropriate proficiency in core competencies which encompass general education and essential life skills. The college is committed to offering experiences that allow students to acquire, develop and demonstrate growth in these competencies. The attainment of these competencies provides the foundation for lifelong learning.

Communication:

Using listening, speaking, reading, writing and visual communication skills effectively.

Technology Fluency:

Utilizing technology to enhance productivity in one's academic, professional and personal life.

Information Literacy:

Recognizing when information is needed and locating, evaluating, and using information appropriately.

Personal Wellness:

Demonstrating the use of strategies that promote holistic health and wellness.

Self Management:

Displaying accountability and adaptability as a learner.

Scientific Reasoning:

Applying logic and the scientific method to interpret observable evidence.

Quantitative Reasoning:

Applying mathematical concepts appropriately to analyze and interpret quantitative information.

Social and Civic Responsibility:

Participating in communities as an informed, committed and productive individual.

Global Perspective:

Awareness and understanding of the diversity and interdependence among cultures, communities and the environment.

Innovative and Critical Thinking:

Integrating knowledge to analyze problems using different modes of thinking (critical, creative and innovative).

Learning Outcomes Assessment and Accountability

Anne Arundel Community College is committed to ensuring that its students and graduates are among the best-prepared citizens and workers of the world by offering high quality, affordable, and accessible learning opportunities while also continuing the institution's excellence, accountability, and continuous learning. To this end, practices and procedures are established to ensure faculty, staff, and administrators systematically assess student learning outcomes at the course, program and institution levels.

The assessment activities may take diverse forms including, but not limited to, standardized assessments, placement tests, faculty-developed evaluations, focus sessions, surveys, and evaluation of student work. The college believes that such input is vital to its responsibility to maintain quality instruction. Therefore, class time may be used at times for these activities and it is expected that students will participate in the processes when asked. Confidentiality of responses is ensured.

Engaged Learning

In 2008 and again in 2015, Anne Arundel Community College received the Community Engagement Classification from the Carnegie Foundation. The selection recognizes the college's excellent alignment among mission, culture, leadership, resources, and practices that support dynamic and noteworthy community engagement.

Spirit of Community

The college discussed, developed and adopted this statement in light of continuing national discussions on civility in American society. We work hard to promote the spirit of community here at AACC. Our **Spirit of Community** statement follows.

Anne Arundel Community College is built on our commitment to excellence, engagement in the learning process and mutual respect and courtesy.

As a member of the Anne Arundel Community College community, I have the obligation to accept responsibility for my conduct. I will:

respect the rights and property of all members of the campus community

uphold personal and academic integrity

practice honesty in communication

listen to others' viewpoints

recognize the strength of diversity

oppose bigotry

work with others to uphold these standards

(Approved by the Committee Advisory to the President on March 4, 1998)

Commitment to International Education

Recognizing the new opportunities and challenges facing residents of our community who are increasingly affected by worldwide social, economic and political systems, the college affirms a commitment to providing our students with the education and experience they need to understand and deal with issues that transcend national boundaries. The college recognizes that increased immigration to Anne Arundel County, increased employment of county residents abroad and increased local employment of county residents by foreign companies require that students develop a new set of basic skills in order to participate in the rapidly emerging global economy.

The international education mission of the college includes providing our students with opportunities to participate in study abroad programs as well as internationalizing the curriculum, providing English as a second language, offering courses in international business and culture studies and initiating short-term programs on campus for students, scholars and business and government leaders from abroad.

College Events and Services

The college sponsors special events, lectures, clinics, workshops, topical seminars and a variety of other services to benefit the community. We share college facilities and services to enrich business symposiums, conferences, government, professional and avocational interests. Each year, thousands of community citizens participate in and attend campus events ranging from dramatic productions to athletic contests.

Student and faculty groups present a variety of concerts, lectures, art exhibits, plays and other campus events for community benefit. Faculty and staff share knowledge and expertise with numerous community groups through the Speakers Bureau. Website: www.aacc.edu/campus-life/

Locations

Classes are held at many locations throughout the county.

Admissions

Apply to Anne Arundel Community College

AACC is happy to help you get started as a credit or noncredit student. If you want to take credit courses that lead toward a degree or certificate, you first need to apply to the college. It's free and online! The links (right) will guide you through the steps to begin.

- Apply
- Important Dates
- International Students
- High School/Dual-Enrolled Students
- Military Admissions
- Transferring In
- Noncredit Registration

Obtain Credit for Previous Learning

We recognize that learning occurs in a variety of settings and formats. AACC reviews credit for previous learning from traditional college coursework and from nontraditional sources such as military experience.

Planning ahead to your Junior year? Refer to transferring from AACC

- About Transfer Credit
- AP/CLEP/IB/Dept. Exam
- High School Credit
- Life/Work Experience
- Military Experience
- How to Get Started

AACC's General Admissions Procedures

Students who wish to be familiar with AACC's general entrance statement and our admissions procedures may refer to the information links (right) or review the content of this page.

Have a question? Our Admissions Advisors are happy to help.

- General Entrance Statement
- Degree-Seeking Admissions
- Nondegree-Seeking Admissions
- Selective Admissions
- Questions? Contact Admissions

General Entrance Statement

Applicants who will benefit from postsecondary education are admitted to Anne Arundel Community College by the Director of Admissions. The Director of Admissions is authorized to refuse or revoke admission to the college if the applicant poses a present or future threat to himself/herself or others, is disruptive to the college community, or poses an adverse impact on the operation or safety of the college.

Anne Arundel Community College may determine eligibility for registration in a class and/or admission to a program of study by submission of the following to the Records and Registration Office:

- Qualifying scores: Scholastic Assessment Test (SAT), American College Test (ACT), International Baccalaureate (IB), Advanced Placement (AP), College-Level Examination Program (CLEP), General Educational Development (GED), and Anne Arundel Community College assessment test.
- Successful completion of equivalent college courses.
- Academic credential: Official document that verifies qualification or competency in a specific skill or completion of a program of study. (e.g. diploma, transcript, educational or completion certificate).

State Authorization

Various state regulations require legal authorization for postsecondary institutions to offer distance education classes/programs, internships and clinical placements, to students who live outside the institution's home state. As a consequence, AACC may have

limited operations in some states. Therefore, if you are not a resident of Maryland, please visit AACC's State Authorization webpage for detailed information on any limitations.

General Admission Procedures

Degree- and Certificate-seeking Students (must be age 16 or older)

1. Submit an admission application as early as possible and before the term when admission is desired.
2. Submit all applicable documents to the Records and Registration office:
 - a. High school and GED graduates: submit an official copy of your high school transcript or GED test results.
 - b. Submit official copies of your ACT, SAT, AP, CLEP, or IB scores.
 - c. Students who have attended other colleges: submit an official transcript from each college attended.
 - d. Students who have military training or experience: submit an official transcript from your military branch.
3. Determine your Assessment and Placement Requirements:

a. English Placement

To be exempt from the college's English placement test, students must meet one of the following requirements:

must have graduated from high school within the last five years with an unweighted, cumulative 3.00 GPA or higher, or submit your entire academic high school transcript that must show completion of the 11th grade as current high school student, with an unweighted cumulative high school GPA of 3.0, or higher, or have qualifying scores on the SAT, ACT, AP, or GED, or have college English credit from another college.

Students who wish to test for a higher placement may take the college's placement test. Refer to the Determine Placement page to determine your English and math placement.

b. Math Placement

To be exempt from the college's math placement test, students must meet one of the following requirements:

must have graduated from high school within the last five years with an unweighted, cumulative 3.00 GPA or higher, or submit your entire academic high school transcript that must show completion of the 11th grade as current high school student. The unweighted high school GPA and completion of eligible math courses will determine exemption, or have qualifying scores on the SAT, ACT, AP, or GED, or have college math credit from another college.

Students who wish to test for a higher placement may take the college's placement test. Refer to the Determine Placement page to determine your English and math placement.

Nondegree-seeking Students (must be age 16 or older)

Non-degree seeking students are students who wish to take credit courses without pursuing a degree or certificate at AACC. Non-degree seeking students are often dually enrolled high school students, those taking courses for personal enrichment, and visiting students from other colleges. Non-degree seeking students must meet the prerequisite(s) for any course(s) that the student plans to enroll in at AACC. Visiting students earn credits at AACC in order to transfer those credits to their home institution. Visiting students are responsible for consulting with their home institution to ensure a smooth transfer of credits. Non-degree seeking students are not eligible for federally funded financial aid.

Steps to become a non-degree seeking student:

1. Submit an admission application as early as possible and before the term when admission is desired.
2. All students, including non-degree seeking students, must demonstrate completion of course prerequisites. Students may demonstrate completion of course prerequisites by submitting high school transcripts, ACT, SAT scores, or transcripts from other colleges to the Records and Registration Office.

Who should take the AACC Placement Test?

Students who have not:

- taken the SAT, ACT, AP exam, or
- do not have college credit for English and math from another college, or
- those who have and wish to test for a higher placement. (Refer to Determine your Assessment and Placement Requirements above.)

Placement Status

Upon admission, students are assigned a placement status, which determines the maximum number of credits in which a student can enroll each term, as stated in the chart below. This status may change as placement documents are received.

AACC's placement statuses:

English Composition Eligible means a student who has demonstrated eligibility to enroll in English composition (ENG-101 or ENG-101A) based on high school GPA and coursework taken; ACT, SAT, AP, or CLEP examination results; previous college transcripts; or AACC's placement test.

Provisional means a student who has not demonstrated eligibility for English composition (ENG-101 or ENG-101A) based on high school GPA and coursework taken; ACT, SAT, AP, or CLEP examination results; previous college transcripts; or AACC's placement test. Students who are not eligible for English composition will be required to take English Language Learning (ELL) or Academic Literacies (ACL-040) course(s) and should begin these courses in their first term.

The chart below documents the maximum number of credits for which a student may be concurrently enrolled based on their placement status and the length of the session in which the course(s) is scheduled.

Placement Status Maximum Concurrent Credit Hours Limits by Session Length

Status/Standing	13-15 Week Session	5-12 Week Session	4 Weeks or Less Session
English Composition Eligible	18	10	6
Provisional	13	10	4

Note: Academic standing also impacts the maximum credit hours per term.

An exception to the limitation on credit hours may be granted by an academic advisor for a student with English Composition Eligible status if the student has an adjusted cumulative grade point average (GPA) of 3.00 or higher that includes at least one full-time term of courses for which a GPA of 3.00 has been earned.

Credit and equivalent hours are noted near course titles in the Courses section of this catalog. Limitations on credit hours are calculated as the sum of all the credit hours and equivalent hours for which a student registers for a given term.

Credit for Previous Learning

Learning occurs in a variety of settings and formats. AACC reviews credit for previous learning from traditional college coursework and from nontraditional sources such as military experience.

Planning ahead to graduation? Refer to transferring from AACC

About Transfer Credit
AP/CLEP/Cambridge AICE/IB/DSST/Dept. Exam
High School Credit
Life/Work Experience
Military Experience
How to Get Started

Apply to AACC
Transfer Credit to AACC

Students who wish to be familiar with AACC's general statements for Admissions for students with transfer credit or prior learning experience from work, life, military or other sources, may refer to the information listed below. Should you have a question about Admissions, our Admissions Advisors are happy to help.

Transfer Credit Criteria

The college adheres to the transfer credit mandates of the Maryland Higher Education Commission. Students must complete all admission procedures before AACC will evaluate requests to transfer credits from other institutions. Students should submit official transcripts from all previous undergraduate institutions attended. Official transcripts must be received by AACC in a sealed envelope that is signed or stamped across the seal by the sending institution. Official transcripts may also be received electronically via a third-party transcript service directly from the sending institution. Transcripts must be received within one year of the date the transcript was issued to be considered for transfer credit. All transcripts should be sent to the Records and Registration office. All transfer credit award determinations are made by the Records and Registration office in conjunction with the academic departments. Some academic departments may limit the courses that can be accepted for transfer credit at AACC based on professional accreditation or licensure requirements. Transfer credit will not be awarded if a course has already been completed at AACC.

Credit may be awarded if one of the following criteria is met:

1. The institution is accredited by a commission on higher education approved by the United States Department of Education. To verify accreditation, AACC uses the Council for Higher Education Accreditation (CHEA) Database of Institutions and Programs Accredited by Recognized United States Accrediting Organizations.
 - a. AACC recognizes the following regional accreditation associations:
 - Middle States Association of Colleges and Schools
 - North Central Association of Colleges and Schools
 - New England Association of Colleges and Schools
 - Northwest Association of Colleges and Schools
 - Southern Association of Colleges and Schools
 - b. The institution is legally authorized to grant standard college degrees and is accredited by an accrediting agency recognized by the United States Department of Education. The college may award transfer credit based upon course equivalencies, expected learning outcomes and applicability to the college's curricula, standards, and course offerings. Applicants seeking transfer of credit should contact the Records and Registration office at time of application to the college if they are unsure as to which documents are necessary.
 - c. Credit may not be accepted from schools that are candidates for regional accreditation and not fully accredited, or for coursework completed while an institution was not accredited by a commission on higher education approved by the United States Department of Education.
2. AACC has an approved articulation agreement with a high school, business, or industry. Articulation agreements specify award of credit for meeting certain criteria and presenting appropriate documentation. Refer also to Transfer Agreements.
3. AACC may accept credit if the American Council on Education (ACE) or National College Credit Recommendation Service (CCRS) has reviewed the training or military occupation and recommended award of college credit. AACC uses ACE and National CCRS recommendations as credit award guidelines with final determination of award of credit made in conjunction with the academic departments. Refer to the section that follows on Transfer Credit from Nontraditional Sources for more information.
4. Coursework completed at a postsecondary institution outside of the U.S., which is not regionally accredited by one of the aforementioned associations, must be evaluated by a professional transcript evaluation service before AACC will review courses for transfer credit. AACC requires the course-by-course evaluation for transfer credit review and accepts evaluations

only from these approved evaluation services: World Education Services (WES), Educational Credential Evaluators (ECE), and SpanTran: The Evaluation Company.

5. If the student's cumulative grade point average from a previous institution is less than a 2.00 on a 4.00 scale, AACC will review only courses with a grade of C or better for transfer credit. Exception: If a student has less than a 2.00 GPA from a regionally accredited Maryland public institution and then transfers to AACC, AACC will accept credits for general education courses in which the student earned a grade of D (a C- or higher is required for ENG 101, ENG 112, ENG 116, or ENG 121 equivalent).

Transfer Credit from Other Institutions

In review of transfer credit from other institutions, the college considers the institution where the course was taken, the date completed, course objectives, and grade in deciding whether credit will transfer to AACC and if the course will be designated as a specific AACC course equivalency or elective. In some cases, AACC will need to review the syllabus or additional documentation. Upon request, students must supply this information from the sending institution. AACC will convert courses taken at institutions operating on the quarter system to semester hours if the credit transfers. Quarter hours are multiplied by 2/3 to equal semester credit hours.

Current AACC students who wish to take a course at another institution and transfer the credit back to AACC must file a Permission to Study at Another Institution form with the Records and Registration office to ensure the coursework will transfer back and meet AACC requirements. Please use the Transfer Course Equivalency Database to view already established course equivalencies.

Transfer Credit from Nontraditional Sources

The college may give credit for demonstrated proficiency in areas related to college level courses. Sources used to determine such proficiency are College-Level Examination Program (CLEP); Advanced Placement Examination (AP); Cambridge Advanced International Certificate of Education (AICE) Diploma Program Examinations; International Baccalaureate (IB); Program Pathways Articulation; DANTES Standardized Subject Test (DSST); Office of Education Credit and Credentials of the American Council on Education (ACE); and National College Credit Recommendation Service (CCRS). In assigning credits of this nature, the recommendations of the American Council on Education (ACE) or National College Credit Recommendation Service (CCRS) are used as guidelines with final determination of award of credit made in conjunction with the academic departments. Applicants who seek credit from nontraditional sources should contact the Records and Registration office at the time of application to the college if they are unsure as to which documents are necessary. A maximum of half of the credit hours required for a degree or certificate may be earned in this nontraditional manner.

Each institution sets its own policy on acceptance of nontraditional credit. When planning their choice of classes, students need to consult with their proposed transfer institution.

Military - Students wishing to earn college credit for their military experience must submit the official Joint Services transcript (Army, Navy, Coast Guard or Marines), Community College of the Air Force transcript or a photocopy of the DD-214. The official Joint Services Transcript can be ordered at <https://jst.doded.mil/jst/login>. Basic Training is used to satisfy the general education health/fitness/wellness requirement and credit is awarded for other military training and occupations using the American Council on Education credit recommendations when a similar discipline is offered at AACC. For more information about military transfer credit contact the Records Office at 410-777-2572 or email transfercredit@aacc.edu.

Program Pathways - Program Pathways is an initiative between Anne Arundel Community College (AACC) and Anne Arundel County Public Schools (AACPS) to support successful transition of students from high school to college and careers. Plans of study have been created to visually demonstrate how high school programs can move into college degree and certificate programs.

High school students have the opportunity to earn AACC credit for successfully completing specific high school pathways in areas including business, engineering, information technologies and health. To view plans of study and details on receiving college credit, contact the Office of Instructional Pathways and Partnerships. Students enrolled in Program Pathways should arrange to meet with an academic or department advisor prior to attending AACC. Questions or requests for additional information should be directed to the Office of Instructional Pathways and Partnerships at 410-777-2891.

Proficiency Assessment Credit - Anne Arundel Community College (AACC) will award credit to Anne Arundel County Public school (AACPS) students for completion of high school course work that is aligned with AACC courses as specified in the Proficiency Agreement. The student must complete the proficiency assessment with a C or higher (unless otherwise specified in Proficiency Agreement). The proficiency assessment is developed, administered, and graded by AACC faculty according to AACC

department standards. Grades are not recorded on a student's transcript and college credit is not granted when achievement is below a C (or as otherwise specified in the Proficiency Agreement). The grade a student receives on the proficiency assessment, if C or better (or as otherwise specified in the Proficiency Agreement), is recorded on the student's official AACC transcript as "proficiency credit" in the transfer credit section. The maximum number of credits that can be awarded through a combination of proficiency assessment credit, credit by departmental examination, and credit through portfolio review is 15 credits. In accordance with the college's academic regulations, only credit courses taken at Anne Arundel Community College will be calculated as part of the student's grade point average and therefore will not include the proficiency assessment grades or any quality points as a result of credit awarded through proficiency. A student who has received college credit through proficiency may request and receive an official transcript of these grades regardless of having completed coursework at AACC. For additional information about proficiency courses or assessment details, please contact Melanie Coleman, Office Associate, Instructional Pathways and Partnerships, at emcoleman1@aacc.edu or 410-777-2413 or visit the Proficiency Credit webpage: <http://www.aacc.edu/earn-college-credits-while-in-high-school/proficiency-credit/>.

Advanced Placement (AP) - These exams are usually taken in high school, concluding a specially designed advanced placement course. Students must have official Advanced Placement score reports sent to the Records and Registration office directly from the College Board. Student grade reports are not accepted for credit, but may be used for placement or waiver of course prerequisites at time of registration. To request an official AP score report be sent to AACC visit the AP score website.

Because each college sets its own policy on required AP scores and credits awarded, students planning to transfer need to consult with their transfer institution. AACC will award credit based on the AP exams and minimum scores listed.

AP Exam Title	Passing Score	AACC Equivalent	Credit Awarded
2-D Art and Design*	3	ART 100	3
3-D Art and Design*	3	ART 102	3
Art History	3	ART 209, ART 210	6
Biology	3	BIO GER	3
	4	BIO 101	4
Calculus AB	3	MAT 151	4
	4	MAT 191	4
Calculus BC	3	MAT 191	4
	4	MAT 191, MAT 192	8
Chemistry	3	CHE 111, CHE 112	8
Chinese Language and Culture	3	CHI 112, CHI 211	6
Comparative Government and Politics	3	PLS 131	3
Computer Science A	3	CTP 115	4
	4	CTP 115, CTP 150	8
Computer Science Principles	3	CTP 103	3
Drawing*	3	ART 100	3

English Language and Composition	3	ENG 101, ENG 102	6
English Literature and Composition	3	ENG 101, ENG 102	6
Environmental Science	3	BIO GER	3
	4	BIO 107	4
European History	3	HIS 111, HIS 112	6
French Language and Culture	3	FRE 211, FRE 212	6
German Language and Culture	3	GER 211, GER 212	6
Human Geography	3	GEO 103	3
Italian Language and Culture	3	ITA 211, ITA 212	6
Japanese Language and Culture	3	JPN 112, 211	6
Latin	3	LAT 111, LAT 112	6
Macroeconomics	3	ECO 211	3
Microeconomics	3	ECO 212	3
Music Theory	3	MUS 113, MUS 114	6
Physics 1	3	PHY GER	3
	4	PHY 111	4
Physics 2	3	PHY GER	3
	4	PHY 112	4
Physics C: Electricity and Magnetism	3	PHY GER	3
	4	PHY 212	4
Physics C: Mechanics	3	PHY GER	3
	4	PHY 211	4
Precalculus	3	MAT 145	3
	4	MAT 151	4
Psychology	3	PSY 111	3
Spanish Language and Culture	3	SPA 211, SPA 212	6

Spanish Literature and Culture	3	SPA 211, SPA 212	6
Statistics	3	MAT 135	3
U.S. Government and Politics	3	PLS 111	3
United States History	3	HIS 211, HIS 212	6
World History	3	HIS 111, HIS 112	6

**Note: For the studio courses noted with (*), students will need to submit their portfolios and grade to the department chair for review and approval. Please contact the art department chair by email: <https://www.aacc.edu/about/schools-of-study/liberal-arts/visual-arts-and-humanities/>.*

College-Level Examination Program (CLEP) - The College-Level Examination Program (CLEP) is a nationally recognized credit by exam program. The exams allow students to earn college credit for knowledge gained through experience or independent learning. Students interested in learning more about CLEP should visit the AACC Testing website or contact the Testing office at **410-777-2375**. Upon receipt of an official CLEP score report, the Records and Registration office will review the exam results for award of credit. It is the student's responsibility to have official CLEP score reports sent to AACC. To request an official CLEP score report visit the CLEP score website.

Each college sets its own policy on required scores and credits awarded. When planning their choice of classes, students need to consult with their proposed transfer institution. AACC will award credit for the CLEP exams listed below provided the passing score, also noted below, has been met.

CLEP Exam Title	Passing Score	AACC Equivalent	Credit Awarded
Accounting, Financial	50	BPA 201	3
American Government	50	PLS 111	3
American Literature	50	ENG 216, ENG 217	6
Analyzing and Interpreting Literature (on/after 7/1/10)	50	ENG GER	3
Biology	50	BIO GER (nonlab) ¹	6
Business Law, Introductory	50	BPA 253	3
Calculus	50	MAT 191	4
Chemistry	50	CHE GER (nonlab) ²	6
College Algebra	50	MAT 137	3
College Composition Modular	50	ENG ELE with eligibility for ENG 101	3
College Composition (with Essays)	50	ENG 112 or ENG 102	3
College Mathematics	50	MAT 133	3

Introduction to Educational Psychology ³	50	EDU 211 ³	3
English Literature	50	ENG 213, ENG 214	6
French Language	50	FRE 111, FRE 112	6
German Language	50	GER 111, GER 112	6
Human Growth and Development	50	PSY 211	3
Humanities	50	Humanities elective	3
Information Systems	50	CTP 103	3
Macroeconomics, Principles of	50	ECO 211	3
Management, Principles of	50	BPA 142	3
Marketing, Principles of	50	BPA 125	3
Microeconomics, Principles of	50	ECO 212	3
Natural Sciences	50	Science elective (nonlab)	6
Precalculus	50	MAT 145	3
Psychology, Introductory	50	PSY 111	3
Social Science and History	50	Social Science elective	6
Sociology, Introductory	50	SOC 111	3
Spanish Language	50	SPA 111, SPA 112	6
Spanish with Writing Level 1	50	SPA 111, SPA 112	6
Spanish with Writing Level 2	65	SPA 111, SPA 112, SPA 211, SPA 212	12
United States History 1	50	HIS 211	3
United States History 2	50	HIS 212	3
Western Civilization 1	50	HIS 111	3
Western Civilization 2	50	HIS 112	3

¹Cannot be substituted for BIO 101.

²Cannot be substituted for CHE 111 or CHE 112.

³Students taking this exam must meet with the TEACH advisor to discuss the mandatory fieldwork that accompanies this class.

Cambridge International Assessment Examinations (Cambridge Advanced International Certificate of Education (AICE) Diploma Program Examinations) - Cambridge AICE Diploma Program Examinations are nationally and internationally recognized exams modeled on the British pre-college curriculum and A-Level exams. These exams are usually taken in high school upon the completion of a specifically designed course. Upon receipt of an official Cambridge AICE score report, the Records and Registration office will review the exam results for award of credit.

Students must have official Cambridge AICE score reports sent to AACC. U.S. students may request an official Cambridge AICE Statement of Results via the Cambridge Grade Transcript Service Website. Students from outside of the U.S. must submit documents for verification. To verify these documents, the Records and Registration office may access the student's record via the Cambridge Direct website. Students should send the following to transfercredit@aacc.edu: a) Cambridge International Centre, b) Candidate Numbers, c) Relevant Examination Series (date the exam(s) were taken and d) Date of Birth. Due to the variation in exams that can be taken towards the Cambridge AICE Diploma, only the General Certificate of Education or Statement of Results are accepted.

Each college sets its own policy on required scores and credits awarded. When planning their choice of classes, the student should consult with their proposed transfer institution. AACC will award credit for the Cambridge AICE exams listed below provided the passing score, also noted below, has been met.

AACC accepts the following Cambridge International Assessment Examination results:

Test	Score	Credit Awarded
Biology (AS Level)	C (40 points)	3 Credits Biology Elective (BIO ELE)
Mathematics (AS Level)	C (40 points)	3 Credits Math Elective (MAT ELE)
Chemistry (AS Level)	C (40 points)	3 Credits Chemistry Elective (CHE ELE)
Psychology (AS Level)	C (40 points)	3 Credits Psychology Elective (PSY ELE)
Thinking Skills (AS Level)	C (40 points)	3 Credits Philosophy Elective (PHL ELE)

Exams must be recommended by the American Council on Education (ACE) and evaluated by the corresponding academic department.

DSST (Formerly DANTES) Exams - DSST are college subject exams that you can take to earn college credit for knowledge you acquired outside of a traditional classroom, similar to CLEP. AACC is not a testing location, but you can go to www.getcollegecredit.com to find several locations in Maryland at which you can take the exam, resources to help you prepare, and directions on having your scores sent to AACC. Each college sets its own policy on required scores and credits awarded. When planning their choice of classes, students need to consult with their proposed transfer institution. AACC will award credit for the DSST exams listed below provided the passing score, also noted below, has been met.

DSST Exam Title	Passing Score	AACC Equivalent	Credit Awarded
Advanced English Composition, Principles of		No credit awarded	
Anthropology, General	400	ANT 120	3
Art of the Western World	400	ART 209	3
Astronomy		No credit awarded	
Business, Introduction to	400	BPA 111	3
Business Ethics and Society	400	BPA 138	3

Business Mathematics		No credit awarded	
Civil War and Reconstruction	400	HIS 220	3
College Algebra, Fundamentals of	400	MAT 044	0
Computing and Information Technology	400	CTP 103	3
Counseling, Fundamentals of	400	HUS 216	3
Criminal Justice	400	CJS elective	3
Cybersecurity, Fundamentals of	400	CTS 210	3
Education, Foundations of	400	EDU 111*	3
Environmental Science	400	BIO 108	3
Ethics in America	400	PHL 142	3
Ethics in Technology	400	CTP 194	3
Finance, Principles of	400	BPA 256	3
Geography, Introduction to	400	GEO 103	3
Geology, Introduction to		Under review	
Health and Human Development	400	HEA 111	3
History of the Soviet Union	400	HIS elective	3
History of the Vietnam War	400	HIS 229	3
Human Resource Management	400	BPA 172	3
Law Enforcement, Introduction to		Under review	
Lifespan Developmental Psychology	400	PSY 211	3
Management Information Systems	400	CTA elective	3
Math for Liberal Arts		No credit awarded	
Money and Banking		No credit awarded	
Organizational Behavior	400	BPA 190	3
Personal Finance		Under review	
Public Speaking, Principles of		No credit awarded	

Statistics, Principles of	400	MAT 135	3
Substance Abuse	400	HUS 102	3
Supervision, Principles of	400	BPA 171	3
Technical Writing		No credit awarded	
World Religions, Introduction to	400	PHL elective	3

*Students taking this exam must meet with the TEACH advisor to discuss the mandatory fieldwork that accompanies this class.

International Baccalaureate - AACC will award credit for International Baccalaureate (IB) subject examinations with scores of 5, 6, or 7. To receive credit for IB exams, students must have official results sent to the Records and Registration office. Credit earned through IB subject area examinations may be used to satisfy general education requirements, course equivalencies, prerequisite requirements or elective credit. Students may be awarded up to 30 credits toward the associate degree.

Because each college sets its own policy on required scores and credits awarded, students planning to transfer need to consult with their proposed transfer institution.

To request an official candidate score report be sent to AACC, visit the International Baccalaureate website.

Credit by Departmental Examination - In the subjects which college-level examinations (CLEP) are not available, department chairs may arrange to give examinations to qualified applicants. A maximum of 15 credits may be earned through combination of proficiency assessment credit, credit by departmental examination, and portfolio assessment. Applicants must:

- Complete an application for admission.
- Obtain a form for Request for Credit by Departmental Exam from the department chair.
- Have the completed form approved by the appropriate department chair.
- Take the completed and approved form to the Cashier's office and pay application and exam fees.
- Return the form to the department chair and arrange a time to take the exam.

Credit by exam is graded on a pass/fail basis. Courses for which passing grades are earned will be listed on the student's academic record as transfer of credit. The student's grade point average (refer to Academic Regulations) will not be affected. Students who fail may not repeat credit by exam, but may take the course.

Portfolio Assessment - A portfolio is a device in which you collect artifacts and provide documentation demonstrating that you have acquired college-level learning for an identified AACC course. You reflect and write about past experiences and how you met the learning outcomes for the course(s) through study, work and other life experiences which have occurred outside the classroom. A subject matter expert will determine if you have demonstrated that you have the college-level learning equivalent to the course through an examination of the material in your portfolio.

The portfolio assessment advisor will guide you through the process which will consist of an explanation of your knowledge in specific fields and the connection between that knowledge and stated learning outcomes for specific courses offered at AACC. Documentation must be provided relating to the learning claimed. In some cases, a demonstration of skills, a writing exercise, using a computer application, or an oral presentation etc., can serve as documentation. This requirement can be flexible depending on the subject area and learning outcomes. Other supporting materials such as reference letters, transcripts, recognitions and certificates may be required. Portfolio credits do not affect a student's grade point average. A maximum of 15 credits may be earned through combination of proficiency assessment credit, credit by departmental examination, and portfolio assessment. The following are the eligibility requirements for participation in the portfolio assessment program:

- Students are enrolled in a degree or certificate program at AACC
- Students have ENG 111/ENG 115/ENG 101/ENG 101A eligibility
- No CLEP examination is available for the targeted course

To determine eligibility and for a description of policies, procedures and fees, call 410-777-2340.

High School/Dual-Enrolled Students

Students who wish to be familiar with AACC's general entrance statements for High School/Dual-Enrolled Student Admissions may refer to the information listed below. Should you have a question about International Admissions, our Admissions Advisors are happy to help.

General Statements for Admissions of High School/Dual-Enrolled Students

Individuals may benefit from a college experience prior to completing high school graduation requirements. Five distinct programs are available to accommodate these individuals: Concurrent Enrollment, Dual Credit, Early College Access, Early Admission and Gifted and Talented.

Students should complete the application process at least 30 days prior to the start of classes each term to ensure appropriate documents, testing and course selection are completed. See the Admissions Procedures that follow for information on how to apply for any Early College Access program.

Concurrent Enrollment - Concurrent Enrollment allows eligible students (age 16 or older) to enroll in courses at the college while completing high school graduation requirements.

Dual Credit - Dual Credit is a program jointly sponsored by Anne Arundel Community College and Anne Arundel County Public Schools (AACPS). This program allows students to take a college course to earn both college and high school credit. Dual credit will be awarded only to an AACPS student who has been formally approved at their high school **prior** to enrolling in an AACC course, is 16 years old by the first day of college classes, and with the approval of their parent or guardian.

To demonstrate eligibility, a student must submit on or before registration, an Early College Access Program form giving permission that a) specifies the course for which enrollment is requested and b) identifies the equated high school credit.

Early College Access Program - Early College Access is a program jointly sponsored by Anne Arundel Community College (AACC) and Anne Arundel County Public Schools (AACPS). This program allows eligible students 16 years of age or older to enroll in college-level courses while in high school. Anne Arundel County Public School (AACPS) students, with the submission of an Early College Access Program form, will no longer be charged AACC tuition, fees, and for instructional materials.

The Early College Access Program (ECAP) for Gifted and Talented- The college's Gifted and Talented program is the only program in which students under 16 years of age who have completed seventh grade, or equivalent may be eligible to take college credit or fine arts courses. This program is for students who have been identified as having exceptional academic or fine arts talent.

All participants will take the college's English Accuplacer Placement test, and the math placement test, if the goal is to enroll in a math course. Students enrolled in Anne Arundel County Public Schools (AACPS) must receive pre-approval. Contact your school counselor for more information about the AACPS pre-approval process.

Recommendations for the Gifted and Talented program are screened by the Director of Admissions and Enrollment Development and the related academic department(s). Applicants must attend a Gifted and Talented Information Session. Applicants seeking to enroll in fine arts courses (art, music, and theater) may be asked to audition or to present a portfolio of their work. The final decision to enroll a student is made by the Gifted and Talented Team.

Other Early College Access Program participants may qualify to receive a discount of **25%** percent of their tuition costs. Eligible students may take college classes that will complement their high school schedules. Visit the Early College Access Program website for more information.

Early Admission - High school students with a 3.0 grade point average at the end of their junior year may apply for early admission to Anne Arundel Community College with permission from their high school. Requirements for high school graduation may be completed at the college during the summer term following the junior year or may be fulfilled by successfully completing the first year of college. Students seeking early admission should follow the procedures listed in this section and consult with their high school counselors to ensure their planned college program will satisfy the requirements for a high school diploma.

Admissions Procedures - Students interested in Early College Access programs are required to meet with an admission officer and submit the following to the Records and Registration Office:

- an Anne Arundel Community College application for admission;
- an official high school transcript or grade report;
- SAT, ACT, AP, or Anne Arundel Community College's placement test scores.

The completed Early College Access Program form, which indicates eligibility to receive a reduction in tuition, must be submitted to the Cashier's Office. This form lists courses from the college catalog approved by the parent(s) or guardian(s), school official (high school counselor or principal, or in the case of home school, the parent or guardian) and the college. This form is available on the ECAP for AACPS Students webpage and the ECAP for Private and Home School Students webpage.

The completed Early College Access Program form, which indicates eligibility to receive a reduction in tuition, must be submitted to the Cashier's Office. This form lists courses from the college catalog approved by the parent(s), or guardian (s), school official (high school counselor or principal or in the case of home school, the parent or guardian) and the college. This form is available on the ECAP for AACPS Students webpage and the ECAP for Private and Home School Students webpage.

For more information, contact the Admissions and Enrollment Development Office at 410-777-2246, via email at admissions@aaccc.edu.

International Students

Students who wish to be familiar with AACCC's general statements for International Admissions may refer to the information listed below. Should you have a question about International Admissions, our Admissions Officers are happy to help.

General Statement for Admissions of International Students/Non-U.S. Citizens

Anne Arundel Community College welcomes students regardless of their immigration status, and is committed to responding to the educational needs of its community, including those whose native language is not English. These students include United States citizens, permanent immigrants to the United States and citizens of other countries temporarily visiting, working or studying in Anne Arundel County. Undocumented students who have graduated from a Maryland high school may be eligible for a special tuition rate in accordance with the Maryland DREAM Act. Tuition rates vary for noncitizens based on immigration and residency status and federal and state laws. All noncitizen applicants must submit copies of their immigration status to the Admissions Office prior to registration. Please refer to the Tuition, Fees and Payments section of this catalog.

In all cases, the college requires students whose native language is not English to be tested for English language ability using the English as a Second Language Assessment test called the ACCUPLACER LOEP. Scores on this test are used to determine if classes are needed to improve English language skills for a successful college experience.

For students whose level of English proficiency is not yet sufficient to succeed in college credit courses, the college provides comprehensive preparatory course work in English Language Learning (ELL) through Continuing Education. For ELL course descriptions, refer to the Courses section of this catalog.

Admission of International Students With a Student Visa (F-1) - Nonimmigrant international students who apply to Anne Arundel Community College must meet special admission requirements.

The college admits students from abroad into its ELL area of study and associate degree programs. Requirements for admission of F-1 students into either ELL sequence or associate degree programs are the same except that a higher level of English proficiency is required for admission into an associate degree program.

Students enrolled in English for Academic Purposes courses are eligible to take credit courses that do not have any ENG-101 requirement under the following conditions. They have:

- Tested out of, or completed ELL-318 (Advanced Listening & Note Taking) with a grade of PA.

- Tested out of, or completed ELL-319 (Capstone Grammar & Editing) with a grade of PA.

- Registered for ELL-320 (Capstone Reading & Writing). Withdrawing from ELL-320 at any time during the semester makes the student immediately ineligible for concurrently registered credit courses. Students who earn a CO in ELL-320 are not eligible for subsequent credit courses until earning a grade PA.

Students who apply to come to the United States for the purpose of studying full time at Anne Arundel Community College may be issued an I-20 Certificate of Eligibility For Nonimmigrant (F-1) Student Status form by the college after submitting the following documents:

- an online or paper application for admission signed by the student;

- official or certified copy of transcripts and diploma or certificate from secondary and postsecondary schools attended (translated into English);

evaluation from one of the approved evaluation agencies: Educational Credential Evaluators (ECE), World Education Service (WES), and SpanTran: The Evaluation Company (SpanTran) is required for students transferring college credits from foreign transcripts to Anne Arundel Community College; or seeking admissions from Health Professions programs. *Note: The use of NASBA Evaluation Services is only for students in the Financial Accounting Certificate program leading to the CPA examination.* To transfer credits to AACC, the college or university transcript must be evaluated course-by-course. General evaluation or general analysis evaluation is needed for a high school diploma and transcript.

evidence of proficiency in English based on one of the following: (1) an official Test of English as a Foreign Language (TOEFL) score no more than two years old; or (2) SAT or ACT scores; or (3) completion of the Anne Arundel Community College Assessment Test; and

official bank statements or bank letter and a completed Statement of Financial Resources signed by the student and sponsor or family (if applicable) guaranteeing that the student has financial support for one year. The form must also indicate how the student will be supported for the remaining years in the program. Financial documentation must be in English or with English translation and must include the equivalent in U.S. Dollars. An additional \$5,000 is required for each dependent (spouse or child) as well of a copy of each dependent's passport (biographic page only).

Please note that admission is not granted and an I-20 form cannot be issued until all requirements are met.

Application for a Student Visa - The college issues an I-20 Certificate of Eligibility For Nonimmigrant (F-1) Student Status form to students who qualify for admission. Students pay the SEVIS fee, then present the I-20 form with other documentation to a U.S. Consular Office in the country where they are applying for a student (F-1) visa. Final decision on admission into the United States and permitted length of stay is made by the Department of Homeland Security. If approved for the F-1 visa from the U.S. Consular Office, students may travel or enter the U.S. up to 30 days before the program start date on the I-20.

Change of Status to F-1 Within the U.S. - Most non-immigrants are eligible to request a change to F-1 (student) status if they have maintained their current, lawful status. Individuals in J-1 status who are subject to the two-year home residence requirement (Section 212e) are not eligible for a change of status unless a waiver is granted by the United States Citizenship & Immigration Services (USCIS). Students must apply and submit required documentations for admission as listed above to AACC by the deadline in order to get the I-20 form or Certificate of Eligibility for Non-immigrant (F-1) Student Visa Status, pay the SEVIS fee, then submit the original I-20, acceptance letter, documentation of financial support with an I-901, (SEVIS processing fee form) or SEVIS payment receipt, I-539 form with filing fees and other required documents to the USCIS to file for change of status. Students must maintain their current status while their I-539 change of status application is pending. The approval of a change of status can take up to 15-18 months or more for USCIS to process. Students must check the USCIS website at www.uscis.gov for current special instructions and appropriate filing fees prior to mailing their change of status applications. AACC is unable to assist students with filing the I-539 with USCIS. Please consult an immigration attorney if you require assistance with these filings. If the I-539 application is still pending, students can request a deferral of admission from the Admissions and Development Office for a new I-20. If the I-539 application is approved, the student's change of status to F-1 will be effective as of the date of approval. Students must enroll full time (12 credits minimum) at the next available term.

F-1 Visa Students Enrolled Full-Time At Other Colleges or Universities (Concurrently) - F-1 students are eligible for simultaneous enrollment with a combination of courses at AACC and another college or university, only if approved by the Designated School Official (DSO) at the authorized school. (The authorized school is the one that issued the I-20 and maintains the SEVIS record.) Students must submit a college's standard application, copy of F-1 visa or status, I-94, transcript from current school and permission letter from current DSO to enroll at AACC. After completion of courses at AACC, students must send an official transcript to their home institution. To request an official AACC transcript, visit the Request a Transcript webpage.

F-1 Transfer Students - Students with an F-1 visa seeking to transfer to Anne Arundel Community College from another U.S. institution must submit the following documents and meet the following criteria:

- a copy of the I-20 from the previous institution;
- a complete Transfer Eligibility form signed by the Designated School Officer (DSO) from the previous institution;
- official or certified copies of transcripts and school diploma or certificate from secondary and postsecondary schools attended (translated into English); evaluation from one of the approved evaluation agencies: Educational Credential Evaluators (ECE) - www.ece.org, World Education Services (WES) - www.wes.org, and SpanTran: The Evaluation Company (SpanTran) - www.spantran.com is required for students transferring college credits from foreign transcripts to Anne Arundel Community College, or seeking admissions from Health Professions programs. To transfer credits to AACC, the college or university transcript must be evaluated course-by-course. General evaluation or general analysis evaluation is needed for a high school diploma and transcript.
- official transcripts from all previous schools attended in the U.S.

evidence of proficiency in English based on one of the following: (1) an official TOEFL score report no more than two years old; SAT or ACT scores; (3) completion of the Anne Arundel Community College Assessment Test; (4) or college level English courses completed at a U.S. institution; and

official bank statements or bank letter and a completed Statement of Financial Resources signed by the student and sponsor or family (if applicable) guaranteeing that the student has financial support for one year (the form must also indicate how the student will be supported for the remaining years in the program). Financial documentation must be in English or with English translation and must include the equivalent in U.S. Dollars. Your bank statements must demonstrate sufficient funds of a minimum of \$34,532 U.S. Dollars for an associate degree program, or \$25,589 U.S. Dollars for an English Language Learning (ELL) program.

Tuition and fees: \$13,850 (associate degree); \$5,307 (ELL program)

Books: \$1,200 (associate degree); \$800 (ELL program)

Room and Board: \$11,316

Personal Expenses: \$6,366

Health Insurance: \$1,800

An additional \$6,000 per dependent

A copy of each dependent's passport (biographic page only) is required. Please note that admission is not granted and an I-20 form cannot be issued until all requirements are met.

SEVIS School Code for AACC = BAL214F00081000

Application Deadlines - To meet federal requirements and allow adequate processing of applications for international students with F-1 visas, students must submit appropriate documents by the following dates:

	<u>Fall Term</u>	<u>Spring Term</u>
Students outside the U.S.	May 1	Oct. 1
Students changing from Nonimmigrant to F-1 Status	April 1	Sept. 1
Students with F-1 Visa transferring to AACC	July 15	Dec. 15

Admission of Non-U.S. Citizen Students with Other Types of Visas or Statuses (Not F-1 Status) - Non-U.S. Citizen Students with Other Types of Visas or Statuses (Examples: Permanent Resident, Asylee, Refugee, H-1, J-1, Undocumented, etc.) wishing to enroll in credit courses or non-credit English for Academic Purposes courses as part of the ELL Department must submit:

an online or paper standard application for admission signed by the student;

SAT or ACT or TOEFL scores if available (the college assessment tests may be required for enrollment in certain courses) or college ELL placement tests in English and/or Math;

final transcript(s) from secondary and post-secondary schools. These transcripts must be translated into English if written in the student's native language. Evaluation from one of the approved evaluation agencies: Educational Credential Evaluators (ECE) - www.ece.org, World Education Services (WES) - www.wes.org, and SpanTran: The Evaluation Company (SpanTran) - www.spantran.com is required for students transferring college credits from foreign transcripts to Anne Arundel Community College, or applying for Financial Aid, or seeking admissions from Health Professions programs. To transfer credits to AACC, the college or university transcript must be evaluated course-by-course. General evaluation or general analysis evaluation is needed for a high school diploma and transcript; and

proof of legal immigration status (i.e. valid permanent resident card or green card, valid work authorization permit, valid visa stamp and I-94, letters from USCIS as proof of legal presence in the United States, etc.) If you have been approved for Permanent Residency status but have not yet received your card, submit a photocopy of your passport and a copy of the page containing the I-551 stamp.

Prospective students with a temporary visa status such as B or Waiver (visitors, business, etc.) should contact the Admissions and Enrollment Development office to have their applications approved before registering for classes. Nonimmigrant students other than F-1 international student visa holders may take as many credit courses as their college admission status permits, as long as the term begins and ends within the duration of stay indicated on the I-94 in their passport. F-1 visa students must be enrolled full-time in a

face-to-face class every fall and spring term. Only one online class is permitted per term for associate degree students. No online ELL classes count towards the full-time status requirement. F-1 visa students are subject to the out-of-state tuition rates. Refunds will not be issued after the term's scheduled drop dates.

Students with Undocumented Citizenship Status - Information obtained in this process is strictly confidential and will not be disclosed unless required by law.

Students with undocumented citizenship status are subject to the out-of-state tuition rates and are not eligible for federal or state financial aid unless they have received approval for special tuition rate through the Maryland Dream Act.

Maryland Dream Act law provides the opportunity for some undocumented immigrants who graduated from a high school in Maryland to be charged tuition at either the in-county or out-of-county rate. In order to qualify for this special tuition rate, students must provide documentation that they meet the following requirements:

- Attended a public or nonpublic high school in Maryland; and
- Graduated from a public or nonpublic high school in Maryland or received the equivalent of a high school diploma from the State; and
- Enrolling at a Maryland public college or university no later than 6 years after graduating from high school or receiving a GED; and
- Provided documentation that the student, or their parent or legal guardian, have filed Maryland income tax returns:
 - annually for the three-year period before the academic year in which the tuition rate exemption would apply; and
 - an address in the county is used on the Maryland income tax return of the student's parent or legal guardian of the calendar year prior to the academic year in which the rate would apply; and
 - will continue to submit proof of tax filings each year student is enrolled at Anne Arundel Community College.

Provide a signed affidavit attesting to become a permanent resident within 30 days of becoming eligible to do so; and
Registered with the Selective Service System if required to do so. *(This applies to all males 18 and older. You must submit a copy of proof of selective service registration. This can be obtained online at www.sss.gov or from your local post office.)*
The college reserves the right to request additional information and documentation as necessary.

English Proficiency - In order to be admitted to an associate degree program, applicants must submit or complete **one** of the following:

- TOEFL iBT score of 79; or paper test score of 550; or computerized test score of 213. AACC TOEFL code: 5019; or
- ACT English test score of 18; or
- SAT EBRW test score of 480; or
- ENG 101 placement from AACC Accuplacer placement test; or
- Transfer credits of English from an accredited U.S. institution (must submit an official transcript)

Students with an TOEFL iBT score of 46, a paper test score of 450, or a computerized test score of 133 may be admitted to the English Language Learning (ELL) program. These students will be issued an I-20 form. After arriving at the college, students must take the college's English as a Second Language (ESL) placement test before registering for courses.

Additional Information - Students with an F-1 visa must enroll for a full-time course of study, which is a minimum of 12 credits/billable hours each term. F-1 visa students must be enrolled in a face-to-face class every fall and spring term. Only one online class is permitted per term for associate degree students. No online ELL classes count toward the full-time status requirement. Students should consult their Academic Advisor or ELL Advisor for course selection. Courses in the college's ELL core program may be included as all or part of the 12 hours. Students with B1, B2 and F2 dependents must consult with the International Student Advisor prior to registration, to discuss registration limitations.

Questions pertaining to the most current regulations regarding the admission of international students should be directed to the Admissions and Enrollment Development office in the Student Services Center, **410-777-2677**.

For more information, visit the International Student Admissions webpage.

Continuing Education and Workforce Development

Apprenticeship and Applied Learning
Childcare and Parent/Family Life Education
Continuing Education and Workforce Training Certificates
Corporate Training Group
Credit/Noncredit Share Classes
English Language Learning and Adult Education

Hotel, Culinary Arts and Tourism Institute (HCAT)
Lifelong Learning
Correctional Education and Special Populations
Noncredit Scholarships
Clauson Center for Skilled Trades

The School of Continuing Education and Workforce Development (CEWD) offers an extensive array of year round learning opportunities. Exciting, high quality courses and programs allow students of all ages and backgrounds to seek career training; earn academic credit towards a degree in Hotel/Restaurant Management; boost basic skills or learn English as a Second Language as well as enrich their lives through the pursuit of new interests. Many of these program areas receive grant support allowing tuition to remain highly affordable and in some cases classes are offered at no charge to qualifying students. CEWD also offers scholarship opportunities to eligible students enrolled in approved Workforce Training Certificate programs.

At AACC, noncredit courses are offered in several formats; online, hybrid, and face-to-face. Online courses instruction will be provided through a learning management platform and may use other online tools, resources and activities. Although this format is flexible, it is not self-paced. Courses meet online at specific dates and times. Learning activities are to be completed throughout the remainder of the week. Hybrid courses blend on-site meetings with an online component. A significant amount of class activity takes place online, so students spend less time in a traditional classroom.

Award winning career training is always being added to the college schedules. Check out our Casino Dealer School which prepares students for AACC Continuing Education and Workforce Development Certificates in blackjack, craps, mini baccarat, roulette, carnival games, poker and pai gow poker, and employment as a table games dealer at any casino. Classes are available mornings, afternoons and evenings. Learn more at: Casino Dealer School.

To address the ever-changing training needs of individuals, from those new to using technology to experienced professionals including those in IT and cybersecurity, Apprenticeship and Applied Learning offers a dynamic lineup of courses, spanning from computer fundamentals, and 3D printing to advanced computer programming or cybersecurity certification preparation. Courses are offered in response to the rapidly developing workplace and regional workforce demands.

There are also over 100 Workforce Training Certificate programs which prepare students for work in a range of occupations including certified nursing assistant, dental assistant, welding, truck driver, HVAC, casino games dealer, yoga instructor, web design, and various other trades. Licensure and certification classes in areas such as childcare, real estate and allied health are also available. Click Workforce Training Certificate if you are interested in pursuing one or reviewing the complete list of program codes. CEWD scholarship opportunities may be available for students enrolling in Workforce Training Certificate programs.

Anne Arundel Community College issues digital badges in various areas of study from Casino and Gaming to ESL programs. Similar to scouting or military merit badges which indicate levels of achievement, honor, status or recognition, a digital badge provides documented evidence of skill in a content area. These badges can be easily shared with future employers, community organizations and supervisors by hyperlink via email, electronic resumes or on social media profiles to verify necessary workforce skills. Visit digital badges for a complete list of badges offered through AACC programs.

With courses for both the career changer as well as for personal growth and enrichment, the college has one of the largest and most varied programs just for adults ages 50 and up in the state. Classes are offered online, at local Senior Centers, as well as at the Arnold campus. Individuals age 60 and older may be eligible for free tuition. Information is available through Lifelong Learning.

The college also has year round classes for children through Kids in College. Classes range from science and technology to theater and sports for the student seeking either enrichment or advancement in a subject area. In addition, programming is offered each summer in a camp format both online and in limited face to face full and half-day formats. Refer to Kids in College.

All CEWD courses serve the diverse learning needs and interests of county adults and children of all ages and backgrounds. For a current listing of classes and registration information, refer to the most recent schedule of noncredit classes or visit the School of Continuing Education & Workforce Development website. Refer to School of Continuing Education and Workforce Development for more information or contact the Instructional Support Center at 410-777-2325 or email iscenter@aacc.edu.

Apprenticeship and Applied Learning

Apprenticeship and Applied Learning provides licensure, certification, professional development, and entry-level career programming designed to meet regional workforce needs. Courses are offered in a variety of areas including allied health fields such as dental assisting, certified nursing/geriatric nursing, patient care technician, central sterile processing and in a variety of other topics such as professional yoga instructor, real estate, human resources, truck driver training (CDL A and B), welding, carpentry, electrical, and home inspection. In addition, technology training courses prepare students for in-demand certifications such as A+ and Security+. Courses are offered in a variety of formats including online, face-to-face, and hybrid at AACC's many locations around the County including the Glen Burnie Town Center as well as on the Arnold campus. For information, call 410-777-2325.

Apprenticeship Training

AACC provides the related instruction for Registered Apprenticeship Programs offered in partnership with Associated Builders and Contractors Inc., Chesapeake Chapter (ABC), Independent Electrical Contractors Chesapeake (IEC) and Maryland Plumbing and Heating Cooling Contractors (MDPHCC). For information call 410-777-2325.

Workforce Development Scholarship for approved Apprenticeship and Applied Learning Programs

The Maryland Higher Education Commission Workforce Development Sequence Scholarship will fund up to \$2,000 of tuition and fee expenses for awarded students in approved programs. To learn what programs are currently approved and how to apply, contact Financial Aid or refer to our Noncredit Scholarship information.

Childcare and Parent/Family Life Education

AACC offers noncredit courses in childcare, family provider, and CDA (Child Development Associate) credentialing as well as parent and family life education, teacher professional development, and coaching. For more information, please call 410-777-2325 or visit our website.

Clauson Center for Innovation and Skilled Trades

Clauson Center for Innovation and Skilled Trades will become the first building on AACC's campus funded solely by donors and will open for classes in late January 2022. Through programming at the Clauson Center for Innovation and Skilled Trades students will have access to:

- Hands-on learning in state-of-the art labs;

- Fast-track training that targets shortages in key skilled trades; and

- "Real world" apprenticeships and coaching to transition students successfully into jobs with local employers.

Programming in the building will consist of six inaugural programs that are needed in our community-including welding, framing and finish carpentry, plumbing, electric, HVAC, and forklift operation-and is expected to serve over 950 students by its third year of operation.

Correctional Education and Special Populations

Correctional Education and Special Populations offers job training programs for students entering the workforce or changing careers. With a focus on students entering the workforce or changing careers, all training programs have a clear career pathway and prepare students via hands-on training aligning with industry standards. Training is available in the following areas:

Job Corps: (pre-apprenticeship electrical, advanced culinary arts).

AACC provides career technical training programs administered by the U.S. Department of Labor that helps young people ages 16 to 24 improve the quality of their lives and prepare them for the workforce through Pre-Apprenticeship Electrical and Advanced Culinary Arts programs.

Correctional Education: AACC in partnership with the Maryland Department of Labor, provides high-quality education in adult basic literacy, GED, and vocational training to incarcerated individuals. These programs help the individuals to build the skills they need to successfully transition out of prison and back in to the classroom or the workforce and to become productive citizens.

Ordnance Road Correctional Center: AACC in partnership with Anne Arundel County and the Department of Detention Facilities provides high-quality training for men and women incarcerated for 18 months or less. The training includes Adult Basic Skills, GED, computer literacy, and computer training that prepares individuals for industry certification which is critical for re-entry success.

AACC is the sponsor of Registered Apprenticeship Programs in Landscape Management Technician, Security Guard and Table Games Supervisor.

For information call 410-777-2325.

Corporate Training Group

The Corporate Training Group (CTG) provides state of the art training and business services to companies, organizations, entrepreneurs, and government agencies. Critical business skills such as leadership, supervision and strategic planning as well as customized classes to meet individual employer needs are available. Training and services can be brought to an employer's location or conducted online.

In addition to consultative and business services, CTG offers training in the following areas:

- Coaching (Engagement, Executive, Management, Mentoring)
- Command Spanish®
- Computer technology
- Critical business skills (such as communication, customer service, diversity, leadership, time management, sexual harassment prevention, etc.)
- Cybersecurity and Digital Forensics
- E-learning
- Health care and first responders
- Hotel, culinary arts and tourism
- Manufacturing
- Project management
- Sales

Training is also available upon request in many other instructional areas not listed above.

Training may be as short as a few hours or span several months depending on organizational goals and workforce development needs. Classes can be delivered at the client's place of business, online or at one of AACC's convenient locations in Arnold, Glen Burnie or Hanover. Instructional formats vary to best match employees' learning styles. Instructors are content experts and excellent learning facilitators who combine outstanding academic credentials and teaching experiences with practical industry-based knowledge.

The Corporate Training Group maintains relationships with a network of organizations to augment funding and expertise, including the Maryland Department of Commerce, the Anne Arundel Economic Development Corporation, the Maryland Tech Council and the Anne Arundel Workforce Development Corporation. To arrange for a consultative meeting or to obtain information about the full array of business services and training opportunities, call 410-777-2325 or visit the CTG website.

Credit/Noncredit Share Classes

Credit/noncredit share classes at AACC allow students the opportunity to enroll in selected credit classes as a noncredit student. Credit/noncredit share classes are designated in the schedule of classes by a symbol --. If you enroll as a noncredit student, you do not earn academic credit but may receive Continuing Education Units (CEUs) in designated courses. CEUs are a nationally recognized measure of skills or work-related training. Courses in the arts, language and history are popular credit/noncredit share options. For more information on credit/noncredit share course offerings call 410-777-2325.

English Language Learning and Adult Education

Adult Basic Education (ABE)

Through funding provided by the Maryland Department of Labor, AACC is able to offer a robust program in adult basic skills (ABS) and GED test preparation at no cost to students at multiple locations around the County. Offerings include instruction in basic reading, writing and math and GED test preparation. For more information call, 410-777-2325 or e-mail gedprogram@aacc.edu.

English Language Learning (ELL)

AACC offers two types of ELL programs designed to meet ELL learners at all levels: English Basic Skills (EBS) and English for Academic Purposes (EAP). Through funding provided by the Maryland Higher Education Commission, AACC is able to offer a robust EBS program for those in need of basic English instruction in reading, writing, grammar and conversation. Courses are offered at many locations around the county, as well as online, and there is no cost to students to participate. For non-native speakers interested in pursuing a traditional college path, AACC offers the EAP program. In the tuition-based EAP courses students take

intermediate and advanced level ELL courses designed to prepare them for the rigor of college courses. For more information about ELL courses, call 410-777-2325.

Hotel, Culinary Arts and Tourism Institute

The Hotel, Culinary Arts and Tourism Institute (HCAT) offers an array of education and training to meet the hospitality, culinary and tourism needs of students and industry. In addition to American Culinary Federation Education Foundation (ACF) and the Accreditation Commission for Programs in Hospitality Administration (ACPHA) accredited Associate of Applied Science degree programs, HCAT offers credit certificates, noncredit cooking classes for beginner and accomplished home cooks, workforce development training, industry education/certification classes and customized business contract training. Classes are offered at the HCAT culinary center located at the Glen Burnie Town Center in commercial kitchen labs and technology-smart classrooms and additionally on the Arnold campus in the baking/pastry kitchen lab, culinary kitchen lab and wine demonstration café. HCAT credit degree and certificate programs are designated as statewide programs; therefore, students who live in Maryland counties where there is no public community college hotel/restaurant program may apply for a waiver of the out-of-county tuition differential for courses included in these programs. For additional information about the world-class hospitality programming, call 410-777-2398 or the toll-free hotline 1-866-456-HCAT (4228) or visit our HCAT website or on Facebook at www.facebook.com/AACCHCAT.

Casino Dealer School

Dealer School prepares students to become casino table games dealers in their state-of-the-art casino labs at the Arundel Mills location. Gaming is one of the fastest growing industries on the East Coast with six casinos in Maryland alone. Students can earn a Workforce Training Certificate in any of the seven different table games: Blackjack, poker, mini baccarat, carnival games, roulette, craps and pai gow poker, in preparation for employment as a casino dealer.

Apprenticeship training consists of systematic instruction and experience in all the practical aspects of work in a skilled vocation to persons entering or who are currently in the workplace. AACC is pleased to offer one-year apprenticeship training in casino gaming with a focus on the following courses: Pai Gow, Mini Baccarat, Roulette, Craps and Advanced Craps. The Maryland Apprenticeship and Training Council has dedicated its efforts to developing an efficient program of apprenticeship so that the apprentices of today, through a proven systematic program of schooling and on-the-job training, may become the qualified, all-around casino dealers of tomorrow. Approved by the Maryland Apprenticeship Training Council, apprentices receive a minimum of 190 hours of classroom training as well as a minimum of 2,000 hours of on-the-job training. Classes are offered mornings, afternoons and evenings, Monday through Friday. For information, call 410-777-2743 or visit our Dealer School website.

Lifelong Learning

Lifelong Learning offers individuals across the age spectrum the opportunity to improve personal well-being through short, non-credit classes, many of which are offered online. Students ages 16 and older can take classes in world languages, personal finance, fitness, history, writing and more. There is something for everyone and many classes offer CEU's. For more information, visit <http://www.aacc.edu/programs-and-courses/personal-enrichment>

Kids in College

Kids in College offers courses to children up to age 18. Courses include science, mathematics, culinary arts, computers, culture, dance, music, writing, history and sports. Summer camp offerings expand learning opportunities with courses offered both online and in limited face to face half-day and full-day formats. Topics include space exploration, computers, dance, theater, environment, games, and various sports.

EXPLORE for Youth in Grades K-5

Since the mid-1980s, EXPLORE has offered enrichment courses to gifted and talented elementary school students in partnership with Anne Arundel County Public Schools. Summer courses focus on STEAM topics, computers, writing and art.

Middle School Scholars for Youth in Grades 6-8

In partnership with Anne Arundel County Public Schools, Middle School Scholars offers gifted middle school students, STEAM classes, sciences, mathematics, environmental studies and theater arts courses. Classes are held in limited face to face format during the summer at the Arnold campus.

For information on all youth education offerings, call 410-777-2325 or visit the Kids in College website.

Classes for Older Adults

The college has one of the nation's largest and most varied programs for adults ages 55 and older. Courses focus on personal growth, life and work challenges, and personal enrichment. Classes are offered online, at local Senior Centers, as well as at the Arnold campus. Individuals age 60 and older may be eligible for free tuition. Information is available through the LifeLong Learning office at 410-777-2325 or at the LifeStages website.

LifeStages

LifeStages is a program for middle-aged and older adults. Courses focus on topics such as career transitions, caring for aging parents, retirement planning, and challenges and opportunities unique to older adults. For more information call 410-777-2325 or visit LifeStages.

Seniors

AACC offers noncredit courses in health and wellness, art, history, technology, languages, literature and more. Classes are held online, at area senior centers and the Arnold campus. Quarterly registration fee is required and the tuition portion of course cost is waived for those 60 and over. For information call 410-777-2325 or visit the Seniors website.

Peer Learning Partnership

A community of peers organized to develop opportunities for intellectual development, cultural stimulation, personal growth and social interaction in a college setting. Members lead the program and volunteer their time, skills, and talents to gain and share knowledge. Using a collaborative format for learning, the PLP provides an interactive setting in which members can volunteer as course facilitators. For more information call 410-777-2325 or visit the Peer Learning Partnership website.

Guild for LIFE

The Guild for LIFE (Learning is for Everyone) sponsors a series of lectures and tours. Lectures on selected topics are held followed by a trip to a related location the following week. Meetings and class sessions are held online, in west Anne Arundel County, and on the Arnold campus. Transportation is provided and entrance fees and meals are additional. For more information, call 410-777-2325 or visit the Guild for LIFE website.

Academic Regulations

Academic Integrity Policy

Anne Arundel Community College, with a central mission of producing learning and a belief that individuals be given the opportunity to fully develop their potential, is committed to upholding rigorous and fair standards of student learning and achievement. Achieving successful student learning is dependent upon a dedication to academic integrity on the part of all members of the college community. Without academic integrity, students gain unfair advantage over others and impede their own development. In support of this aim, Anne Arundel Community College requires all students to exhibit academic integrity in all their academic work.

A culture of academic integrity, a unifying principle in this and all academic communities, is built upon respect for others' work, commitment to doing one's own work, and intolerance for academic dishonesty in all its forms.

Acts of academic dishonesty include, but are not limited to:

- A. Cheating, which is the use or attempted use of unauthorized material, information, electronic device, implement or study aid in an academic exercise or assignment without the instructor's permission;
- B. Plagiarizing, which is the unacknowledged or improperly cited adoption or reproduction of the ideas, words, data or statements of others, including fellow students and internet sources;
- C. Fabricating or falsifying, which is the unauthorized falsification or invention of any data, information or citation in an academic exercise;
- D. Impersonating, which is assuming another student's identity or allowing another student to do so for the purpose of fulfilling an academic requirement;
- E. Facilitating, which is helping or attempting to help another commit an act of academic dishonesty.

The Board of Trustees hereby authorizes the President, or his/her designee, to develop and establish appropriate procedures to implement and enforce this policy. Anne Arundel Community College periodically reviews and updates its policies and procedures. Please see Academic Integrity Procedures for investigative adjudication and resolution of an alleged academic dishonesty.

Academic Integrity Procedures

ACADEMIC INTEGRITY PROCEDURES

3.1 CONFERENCE

When academic dishonesty is alleged, the student involved shall have an opportunity to admit or deny the allegation. In a timely manner, the instructor shall confer with the student, explaining the reasons why he or she believes that the student has committed the act of academic dishonesty and what academic sanction could be imposed by the instructor. In online courses only, a conference may be conducted using the learning management system. The instructor has the right and obligation to impose a reasonable academic sanction including, but not limited to, the following:

- A. Assign a grade of failing for the assignment;
- B. Assign a grade reduction for the course;
- C. Assign a failing grade for the course; or
- D. Assign an alternative learning experience or activity which shall be completed by the student as specified by the instructor. If the instructor believes that there is sufficient evidence of academic dishonesty, he/she shall then proceed as outlined in

Section 3.2.

3.2 NOTICE OF ACADEMIC DISHONESTY REPORT

A. In all incidents of academic dishonesty, the instructor shall record the incident on the "Notice of Academic Dishonesty" report and note on the report any recommended academic sanction(s).

B. If the student admits academic dishonesty and accepts the academic sanction imposed by the instructor, it shall be so noted on the "Notice of Academic Dishonesty" report and the matter shall be closed after compliance with Section 3.2(D) and Section 3.3(B)(1).

C. In cases in which the student denies the allegations of academic dishonesty or admits academic dishonesty but challenges the academic sanction imposed by the instructor, the instructor shall record a grade status "NG" (meaning No Grade) on the "Notice of Academic Dishonesty" report and after compliance with Section 3.2(D), the matter shall proceed in accordance with the procedures hereafter.

D. In cases under 3.2(B) and 3.2(C), the "Notice of Academic Dishonesty" report shall be completed, dated and signed by both the instructor and the student at the completion of the conference required by Section 3.1. The instructor and the student shall each retain a copy of the report. Should the student refuse to sign the report, the instructor shall so indicate on the report. Within three (3) working days from the date of the report having been signed, the instructor shall forward copies of the report to the academic department chair and the college representative (Section 3.3).

E. In the event the student suspected of academic dishonesty is unavailable for the conference, in accordance with Section 3.1, the instructor shall record a grade status of "NG" and forward copies of the report to the academic department chair and the college representative. The "NG" status shall be assigned as the term grade pending the outcome of a hearing by the Student Review Committee (Section

3.4; 3.5) or a resolution in accordance with Section 3.2(B).

F. If within twenty (20) working days of the notice being sent to the student, in accordance with Section 3.3(B) (3), a resolution under 3.2(B) is not reached or a hearing is not conducted due to either nonavailability of the student or lack of response from the student, the NG status shall be changed to an F grade no later than one month after the start of the next regular term.

G. If a student withdraws from a course under a pending charge of academic dishonesty, the resulting grade of "W" may be changed to an "F" by the instructor at the end of the current term unless the student chooses to contest the charge, pursuant to the procedures governing academic dishonesty, and is successful in his/her defense. A withdrawal from a course under a pending charge of academic dishonesty shall serve as a de facto admission of the guilt absent a successful contest of the charge. From the moment an alleged incident of academic dishonesty occurs, a charge is considered pending. Additionally, a student cannot evade a sanction by withdrawing from a course after admitting guilt and accepting the sanction on the Notice of Academic Dishonesty.

3.3 COLLEGE REPRESENTATIVE

A. The vice president for learning shall designate as the college representative a dean who holds membership in the Council of Deans. He/she shall not be a member of the Student Review Committee.

B. Duties of the College Representative:

1. In cases under 3.2(B):

a. To receive and file the "Notice of Academic Dishonesty" report(s). If there are no prior "Notice of Academic Dishonesty" report(s) filed on the student, the matter shall be closed.

b. If the student's file contains a prior "Notice of Academic Dishonesty" report(s) evidencing that the student committed a prior act(s) of academic dishonesty, or if the current offense is determined to be very serious, the college representative shall review the "Notice of Academic Dishonesty" report(s) to determine the appropriateness of a hearing to consider imposition of a disciplinary sanction(s). The college representative also shall investigate a student's academic background, additionally considering what a student knew or should have known regarding the offense. If the college representative determines that a hearing is not appropriate, he/she shall write a report indicating that a review has been conducted, setting forth the reasons to support his/her decision. This report shall be placed in the student's file, and the matter shall be closed. If the college representative determines that a disciplinary sanction may be appropriate, the matter will be decided by the Student Review Committee in a hearing procedure.

c. If the college representative determines, based on his/her review, that a hearing to consider disciplinary sanctions is appropriate, the college representative shall notify the student by mail that a hearing will be held before the Student Review Committee. The college representative shall forward a written request to the chair of the Student Review Committee, with a copy to the student, and request a hearing date. Thereafter, the college representative shall handle the matter in accordance with the procedures under 3.3, the only difference being that the issue to be presented to and decided by the Student Review Committee shall be limited to whether or not, based on the present act of academic dishonesty noted in the "Notice of Academic Dishonesty" report under 3.2(B), and the reports of prior proven act(s) of academic dishonesty contained in the student's file, imposition of a disciplinary sanction is warranted. All other procedures regarding hearings and appeals shall be applicable to this situation.

2. In cases under 3.2(C) to:

- a. Receive and file the "Notice of Academic Dishonesty" report(s).
- b. Within seven (7) working days of receipt of the report, forward a copy of same to the chair of the Student Review Committee and request, in writing, a hearing date.
- c. Contact the instructor, meet witnesses and collect any relevant evidence pertaining to the case.
- d. Act as the college advocate, prepare the case for hearing and present the case at the hearing before the Student Review Committee.
- e. Within three (3) working days of receipt of the notice of hearing from the Student Review Committee, notify the student, by mail, of the hearing. The notice shall include the time, date, and place of the hearing. It shall also include the copy of the "Notice of Academic Dishonesty" report along with a copy of this policy and procedures. Notice of hearing shall also be forwarded to the instructor and academic department chair. A student must respond to the notice of hearing within twenty (20) working days of the notice being sent. If the student does not respond to the notice of hearing, or responds yet chooses not to attend the hearing, the hearing will proceed without the student's participation. In the case of online courses only, official notice of hearing may be sent via the learning management system.

3. In cases under Section 3.2(E) receive and file the "Notice of Academic Dishonesty" report. Within three (3) working days of receipt of such report, forward a copy of same to the student by regular mail. If the unavailable student, upon notification and within the time limits as expressed in Section 3.2(F), admits academic dishonesty and accepts the academic sanction imposed by the instructor in accordance with 3.2(B), the college representative shall file the "Notice of Academic Dishonesty" report. The report must be completed by the instructor and the matter shall be handled in accordance with Section 3.3(B) (1) (b). If the student requests a hearing, the college representative shall follow the same procedures as in 3.3(B) (2).

4. Within three (3) working days from date of receipt of the decision of the Student Review Committee [Section 3.5(I)], forward a copy of same to the student by mail. A copy shall also be forwarded to the instructor and academic department chair.

5. In all cases of appeal to the vice president for learning, forward all relevant materials to the vice president for learning in accordance with Section 3.6(B).

6. Place copies of all materials and decisions relating to academic dishonesty matters in the student's file. Student files relating to academic dishonesty shall be retained for five (5) years, after which they shall be destroyed.

7. Maintain the confidentiality of student academic dishonesty files except for use as provided by this policy and procedures.

3.4 THE STUDENT REVIEW COMMITTEE

The Student Review Committee, an established committee at the college, shall act as a hearing board to hear all academic dishonesty cases in which a hearing is required under these procedures (see Academic Forum charter regarding the composition of the committee).

3.5 HEARINGS

A. Within seven (7) working days of receipt of the "Notice of Academic Dishonesty" and request for hearing forwarded by the college representative [Section 3.3(B) (2) (b)], the chair of the Student Review Committee shall notify the college representative, in writing,

of the date, time and place of the hearing. Said hearing shall not be scheduled earlier than ten (10), nor later than twenty (20), working days from the date of notice of hearing.

B. Once begun, hearings shall be conducted on consecutive working days until completed, except in cases of health or personal emergency. The hearing shall be completed as expeditiously as possible.

C. Hearings shall be closed to all except the parties and their advisers, if any, and witnesses. The student and the committee may each have an individual in an advisory role present at the hearing; that individual may be an attorney. The adviser(s) shall not function as an advocate at the hearing. The student must present his/her own case and question all witnesses.

D. The chair of the Student Review Committee shall govern all proceedings at the hearing. At the hearing, the college representative, on behalf of the college administration, shall have the burden of proof to establish by a preponderance of the evidence that an offense of academic dishonesty has occurred. The instructor shall have the right to participate with the college representative in the presentation of the evidence.

E. At the hearing, the Student Review Committee shall not be bound by strict rules of legal evidence and may admit any evidence or testimony it considers to be of value in determining the issues involved. Every effort shall be made to obtain the most reliable evidence available.

F. The hearing shall be recorded. The college representative shall arrange and the college shall pay for such recording. If the student requests a copy of the recording, it shall be provided.

G. No later than seven (7) working days after conclusion of the hearing, the Student Review Committee shall determine, based solely on the evidence presented at the hearing, whether or not the college representative has established by a preponderance of the evidence that an offense of academic dishonesty has occurred. If the student is found to have committed an act of academic dishonesty, the Student Review Committee shall adopt the academic sanction recommended by the instructor, unless the committee determines that the academic sanction recommended by the instructor is unreasonable. In this event, the committee shall consult with the instructor in an attempt to arrive at a more reasonable academic sanction. If the instructor and Student Review Committee cannot come to a consensus on the academic sanction, then the committee shall impose the academic sanction it believes to be reasonable. The committee may not make the sanction more severe. The "NG" status on the "Notice of Academic Dishonesty" shall then be changed to a grade consistent with the academic sanction imposed by the Student Review Committee. If the student is found not to have committed the act of academic dishonesty, the "NG" status shall be replaced by the grade the student had for the assignment(s) in question, if a grade had been assigned prior to the allegation of academic dishonesty. If no grade had been assigned earlier, the instructor shall review the material and assign a suitable grade based solely on the quality of work by the student.

H. In addition to academic sanction(s), when deemed appropriate by the Student Review Committee, a disciplinary sanction (Student Conduct Code) may be imposed on the student found to have committed an act of academic dishonesty. In determining whether a disciplinary sanction is appropriate, the Student Review Committee shall have the right to review any other "Notices of Academic Dishonesty" filed with the college representative.

I. The Student Review Committee shall record its specific findings of fact and decision in a written memorandum, which shall be forwarded to the college representative no later than seven (7) working days after conclusion of the hearing.

3.6 APPEAL FROM DECISION OF THE STUDENT REVIEW COMMITTEE

A. The student shall have the right to appeal to the vice president for learning. The appeal shall be made within ten (10) working days from the date that the decision was forwarded to the student by the college representative in accordance with Section 3.3(B) (4). The appeal shall be in writing setting forth the basis for the appeal. The appeal must be received by the vice president for learning within the time limit established herein.

B. Upon receipt of the written appeal, the vice president for learning, or his/her designee(s), shall forward a copy to the college representative and request copies of the decision of the Student Review Committee and all material provided to the Student Review Committee at the hearing.

C. The vice president for learning, or his/her designee(s), shall review the written decision of the Student Review Committee and the written appeal of the student. The vice president for learning, or his/her designee(s), shall have the right, but not the obligation, to review only the material, including the taped testimony, provided to the Student Review Committee at the hearing.

- D. The vice president for learning, or his/her designee(s), shall complete the review and issue a written decision within twenty (20) working days of receipt of the student's appeal.
- E. The vice president for learning, or his/her designee(s), shall forward a copy of the written decision to the student by mail within three (3) working days from the date of the decision. A copy shall also be forwarded to the college representative, instructor and the academic department chair.
- F. The written decision of the vice president for learning, or his/her designee(s), shall be final.

Academic Regulations on Admissions

Assessment Testing

All students who wish to pursue a degree or certificate must be assessed. Students may retest for English and/or reading one time. Retesting in English/reading is not allowed after attending or starting English or reading classes. Students seeking a retest in mathematics must first successfully complete the appropriate noncredit review course. Retesting in mathematics is not allowed after enrollment in mathematics classes. Attempting to take an assessment test more than the approved policy allows violates the college's Academic Integrity Policy. Any assessment test score which is found to be the result of unauthorized repeat testing will be discarded.

Class Standing (Freshman vs. Sophomore)

Students who have been admitted to the college are classified as follows: 0 to 27 credit hours earned - first-year student (freshman); 28 or more credit hours earned - second-year student (sophomore).

Hours Attempted and Earned

Hours attempted means the total number of credit hours in all the credit courses (numbered 100-299) for which students receive one of the letter grades listed under Grades and Quality Points.

Hours earned means the total number of credit hours in all the credit courses (numbered 100-299) for which students receive a letter grade of D or higher. No credit hours are earned with a grade of F or FX or a grade designator of W, WP or WF.

Each grade report shows the credit hours attempted and earned for the term. Grade reports can be accessed through the student's MyAACC page under Self Services.

Equivalent Hours (for developmental courses)

The college offers developmental courses and some courses for which academic credit is not granted. These are known as equivalent hour courses. Hours spent in equivalent courses are not included in hours attempted, hours earned or in computation of the grade point average. They are counted in computing total course load and tuition. This means that students who are limited to a maximum number of credits may take only that total of combined credit and equivalent hours.

Placement Status Maximum Concurrent Credit Hours Limits by Session Length

The chart below documents the maximum number of credits for which a student may be concurrently enrolled based on their placement status and the length of the session in which the course(s) is scheduled.

Status/Standing	13-15 Week Session	5-12 Week Session	4 Week or Less Session
English Composition Eligible	18	10	6
Provisional	13	10	4

Note: Academic standing also impacts the maximum credit hours per term.

An exception to the limitation on credit hours may be granted by an academic advisor for a student with English Composition Eligible status if the student has an adjusted cumulative grade point average (GPA) of 3.00 or higher that includes at least one full-time term of courses for which a GPA of 3.00 has been earned.

Credit and equivalent hours are noted near course titles in the Courses section of this catalog. Limitations on credit hours are calculated as the sum of all the credit hours and equivalent hours, for which a student registers for a given term.

Re-Enrollment/ Forgiveness of Courses/ Academic Clemency

Academic Clemency is designed to provide former Anne Arundel Community College credit students, who have not been enrolled at the college for a minimum of five years, an opportunity to return to Anne Arundel Community College without the burden of previous poor academic performance (i.e., grades of D, F or FX). Upon re-enrollment at Anne Arundel Community College after at least a 5 year absence, students who have demonstrated academic progress by completion of a minimum of 12 credits with a minimum grade of "C" in all courses attempted, may petition the Committee on Academic Standards for Academic Clemency. If the Committee on Academic Standards approves the request for Academic Clemency, the student may choose a maximum of 15 credits be forgiven based on Academic Clemency. The 15-credit clemency is intended as a one time use regulation per student. The courses will still appear on the student's transcript, but are marked as forgiven based on Academic Clemency and not included in the adjusted grade point average. Courses that are forgiven for Academic Clemency cannot be applied towards a degree or certificate. Academic Clemency may only be granted to courses taken at Anne Arundel Community College and only to students currently enrolled at the college. The request for Academic Clemency must be approved prior to the student being awarded a degree or certificate and may be granted one time only. Developmental courses will not be considered for Academic Clemency.

Regardless of whether classes and grades are forgiven by AACC, all attempted classes and grades will be included in the calculation of Satisfactory Academic Progress and used to confirm eligibility for Financial Aid. The calculation utilizing all grades for required courses is consistent with the U.S. Department of Education Regulations. Students should consult with the Financial Aid Office regarding individual circumstances.

Academic Regulations on Education Records, FERPA & Transcripts

- Change of Name, Address, Phone Number
- Change of Program/Major
- Confidentiality of Student Records/FERPA Policy
- Directory Information
- Education Records
- Enrollment Verification/Full-Time, Part-Time Student Status
- Law Enforcement Unit Records
- The Solomon Amendment
- Student Classification (Freshman, Sophomore)
- Transcripts
- Transfer Credit for Students Transferring Into AACC

Confidentiality of Student Education Records/Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) of 1974, as amended, is a federal law which concerns the confidentiality of student education records.

AACC FERPA Policy

The policy of the college is to protect and distribute a student's educational records, including, but not limited to, any personally identifiable information, in accordance with the federal Family Educational Rights and Privacy Act. The Board of Trustees hereby authorizes the President, or his/her designee, to develop and establish appropriate procedures to implement and enforce this policy. A student's FERPA rights begin on the first day the student begins attending classes at AACC.

The college does not disclose information from a student's education record without the student's written consent. Exceptions may include: to college officials with a legitimate educational interest; when providing directory information; in compliance with the Solomon Amendment; to those who, in an emergency, must protect the health or safety of students or others; and as authorized in the federal regulation.

The Solomon Amendment

The Solomon Amendment is a 1996 federal law that requires institutions of higher education to provide "student recruitment information" for all students who are at least seventeen (17) years of age and older and enrolled in at least one (1) credit hour to military recruiters once per term.

The Department of Education has determined that the Solomon Amendment supersedes most elements of the Family Educational Rights and Privacy Act of 1974 (FERPA) but it does not prevent a student from preventing the release of their information to military recruiters. Students who choose to have their directory information withheld will not be included on lists provided to military recruiters. Please be advised that withholding directory information would also prevent the college from being able to verify enrollment information to insurance companies, student loan servicers; verify degree or certificate completion for prospective employers; perform required background checks; share honors or awards earned; and share information with other organizations to which students want us to transmit their directory information. This action may create unintended consequences for students and should be reviewed carefully.

The College provides the following information to military recruiters in accordance with the Solomon Amendment: Full Name, Age, Address, Telephone number, Academic major/program, and student email address.

Procedure for releasing information to military recruiter:

1. Under the Solomon amendment, information will be released for military recruitment purposes only. The military recruiters may request student recruitment information once each term for each of the 12 eligible units within the five branches of the service:

Army: Army, Army Reserve, Army National Guard

Navy: Navy, Navy Reserve

Marine Corps: Marine Corps, Marine Corps Reserve

Air Force: Air Force, Air Force Reserve, Air Force National Guard

Coast Guard: Coast Guard, Coast Guard Reserve

2. The request must be submitted in writing on official letterhead by an authorized representative. It must clearly identify the unit of service requesting the student recruitment information.

3. The request should specify exactly whether the information needed is for the current or previous semester and for which student demographic (e.g. Students between the ages of 17-34).

Data must be transferred securely using a service approved for restricted data such as Acronis for critical data. Data will be in Excel spreadsheet for this release. The following statement should be included alerting the recruiter to our data requirements: Please ensure all transmission, receipt, storage, use and disposal of Student data is handled in a secure manner in accordance with all applicable laws as well as prevailing industry standard best practices in order to prevent unauthorized third party access. Address, phone, and age are not considered public information at our institution and must be protected.

Education Records

Education records include any record maintained by the college directly related to a student or students. These records include admission, academic, billing, financial aid, advising, and placement testing. FERPA gives students the right to inspect and review information contained in their own education record, to challenge the content of the records, and allows for a formal hearing if resolution is not met. The registrar coordinates the inspection and review process for student education records.

All documents and transcripts submitted to Anne Arundel Community College become the property of the College and will not be returned, reproduced, or released back to the student or to a third-party or outside agency. Students who wish to have a personal copy for their records or any other purposes must request the document or transcript directly from the sending institution.

Directory Information

FERPA allows the registrar to release student directory information. This information may include name, address, AACC ID#, AACC email address, telephone numbers, program of study, full-time or part-time enrollment status, terms enrolled, degrees and honors earned, and participation in officially recognized college activities or sports. The college typically releases only name, terms enrolled, full-time or part-time enrollment status, and degrees earned as directory information. To have directory information withheld, notify the registrar in writing. Anne Arundel Community College does not generally provide student directory information when it is requested for solicitation and/or commercial purposes.

Law Enforcement Unit Records

The college may disclose law enforcement unit records to anyone, including federal, State, or local law enforcement authorities, without the consent of student or parent. A law enforcement record is defined as a record that is: created by the law enforcement unit; created for a law enforcement purpose; and maintained by the law enforcement unit.

Change of Name, Address and Phone Number

Students are required to notify the Records and Registration office of changes including name, address, or telephone number. Students should complete the demographic information change form or use MyAACC. The college uses United States Postal Service standard address abbreviations and spellings.

Requests for name changes must be accompanied by supporting documentation consistent with the U.S. Department of Education Regulations. In order to change a first name, students must submit an official court document, marriage certificate, or certificate of naturalization. Changes to last name require an official court document, marriage certificate, or driver's license.

Please note: Post office boxes may be used as mailing addresses, but cannot be used as a legal address for residency purposes. Students who wish to receive college mail at a post office box must submit proof of legal residence before the post office box can be used.

Change of Program/Major

Students are admitted to the college in an academic program specified in their original application. Students are encouraged to meet with an academic advisor prior to changing their program of study. Those who wish to change their program must submit a program of study change form to the Records and Registration office. Those students who are admitted in Exploration programs of study are required to change their program of study before earning 20 credits.

Enrollment Verification/Full-Time, Part-Time Student Status

Request official verification of enrollment at the Records and Registration office. Anne Arundel Community College designates a full-time student as one enrolled for the equivalent of 12 credit hours. Students enrolled for fewer than 12 credit/equivalent hours are classified as part-time. Some health professions students registered in a clinical sequence course are considered full-time when enrolled in fewer than 12 credit hours.

The registrar reserves the right to deny certification of enrollment or attendance or may withdraw such certification due to unacceptable absences in classes and/or lack of substantive participation in distance education courses.

Student Classification

Students who have been admitted to the college are classified as follows: 0 to 27 credit hours earned - first-year student (freshman); 28 or more credit hours earned - second-year student (sophomore).

Transcripts

Request official academic transcripts online at <https://www.aacc.edu/resources/student-records/request-a-transcript/>. Official academic transcripts are only issued for students who have taken coursework at Anne Arundel Community College. Unofficial transcripts may be obtained through the student's MyAACC account.

Transfer Credit for Students Transferring into AACC (Registrar's Guidelines)

Consistent with Title 13B of the Annotated Code of Maryland (13B.06.01.04.), transfer credit accepted by AACC shall be considered equivalent to credit earned at AACC. Students seeking credit for transferring in courses should refer to Credit for Previous Learning catalog page.

Academic Regulations on Grades & GPA

Credit Hours

A credit hour is the unit by which academic work is measured. Each course is assigned a number of credit hours and these are specified in the section of this catalog titled Courses. A student enrolled in a face-to-face course should expect approximately 15 hours of instruction for each credit hour.

Hours Attempted and Earned

Hours attempted means the total number of credit hours in all the credit courses (numbered 100-299) for which students receive one of the letter grades listed under Grade Point Average and Quality Point Total.

Hours earned means the total number of credit hours in all the credit courses (numbered 100-299) for which students receive a letter grade of D or higher. No credit hours are earned with a grade of F or FX or a grade designator of W, WP or WF.

Each grade report shows the credit hours attempted and earned for the term. Grade reports can be accessed in MyAACC Self Services.

Developmental Courses/Equivalent Hours

Courses numbered 000-099 are equivalent hour courses designed to support success in college-level work. Academic credit is not awarded, the grade earned is not calculated in the GPA, and the courses cannot be used towards graduation. Hours spent in equivalent hour courses are not included in hours attempted or hours earned. Equivalent hour courses are counted in computing enrollment load and tuition. This means that students who are limited to a maximum number of credits may take only that total of combined credit and equivalent hours.

Grade Point Average (GPA) and Quality Point Total

The grade point average and credit calculations on the Anne Arundel Community College transcript include only credit courses taken at Anne Arundel Community College. A letter grade is assigned for each course in which students are enrolled at the end of the term. A grade submitted by the faculty member can be viewed in a student's MyAACC account.

Quality point total is the number of quality points a student earns. Each grade report shows the student's quality point total for the term and the cumulative quality point total since admission.

Grade point average (GPA) is calculated by dividing the total quality points by the total credit hours attempted.

Total cumulative grade point average includes all attempts in all credit courses for which students receive letter grades of A, B, C, D, F or FX.

Adjusted cumulative grade point average does not include the previous grade(s) earned in a course when the course has been repeated (R), forgiven (Y), or which has been granted academic clemency (Q). See the grade calculations not included in the GPA table below.

Each grade report in MyAACC shows the student's total quality points for the term and the cumulative quality point total since admission. The number of quality points earned for each credit course is the product of the course credit hours multiplied by the quality point value of the letter grade assigned. For example, students who complete a three-hour credit course with a C grade earn three times two, or six quality points; those who complete a four-hour credit course with a B earn four times three, or 12 quality points.

Letter Grade		Meaning	Quality Point Value per Credit Hour in Credit Courses
A		Excellent	4
B		Good	3
C		Average	2
D		Poor	1
F		Failing	0
FX		Failure due to never having attended or ceasing to attend class at or before the midpoint of the course. In the case of students in distance learning courses, an FX grade may be awarded to students who have never participated or ceased to participate in the course.	0

GPA Calculation

Total cumulative grade point average includes all attempts in all credit courses for which students receive letter grades of A, B, C, D, F or FX. Grade point average (GPA) is calculated by dividing the total quality points by the total credit hours attempted. Adjusted cumulative grade point average does not include the previous grade(s) earned in a course when the course has been repeated (R),

forgiven (Y), or which has been granted academic clemency (Q). See the *grade designations not included in the calculation of the GPA* table below. See an academic advisor with questions.

Grade designations not included in the calculation of the GPA.

AU	Audit
CO	Continue
I	Incomplete
NG	No Grade
PA	Pass (equivalent to a grade of C or better)
Q	Academic Clemency
R	Repeat
S	Satisfactory progress
TR	Course accepted in transfer
U	Unsatisfactory progress
UX	Unsatisfactory due to lack of attendance
W	Withdraw
WP	Withdraw Passing
WF	Withdraw Failing
Y	Course forgiveness

Good Academic Standing

Students who have an adjusted grade point average (GPA) of 2.00 or higher are in good standing.

Dean's List/Honors List

The dean's list includes full-time students earning at least 12 credits with a GPA of 3.40 or higher in the previous term. The honors list includes part-time students earning at least six credit hours with a GPA of 3.40 or higher in the previous term.

Pass/Fail Grades

The PA grade represents a grade of C or better in courses with the Pass/Fail (PA/F) grading designation. Students with a PA grade earn the stated number of credit hours, but a PA grade has no quality point value and is not computed in the grade point average (GPA).

Grade Changes

The instructor of a course is the only individual authorized to assign a grade or to change a grade. Once a grade has been assigned and entered into a student's record, an instructor may request the registrar to make a grade change only if there has been an error in the determination of the grade. Otherwise, final grades on an official transcript shall not be changed. Should a student have a grievance about an assigned grade or evaluation rating, the student should follow the grievance about academic assessment procedure.

If a student can unequivocally demonstrate that it was physically or emotionally impossible to withdraw from a class by the deadline, the student may petition the Committee on Academic Standards to request that the instructor change the grade to WP (withdraw passing) or WF (withdraw failing).

Incomplete Work (Grades)

The grade designator of I (incomplete) is assigned only in exceptional circumstances and is a temporary grade indicator. An incomplete must be requested by the student and may be taken only with permission and cooperation of the instructor. A grade indicator of I will be given only to students who cannot complete the work of a course on schedule because of illness or other circumstances beyond their control. Unless the work is completed by the date approved by the instructor in the course, but not later than 30 days after the beginning of the next 15-week term, a grade of F will be recorded for the course.

Interim Grades

Faculty submit interim grades for every student on the current class roster for sessions of 10 weeks or longer. Interim grades are due after one third of the session has been completed.

Student progress to date will be indicated by the following grade indicators:

S Satisfactory progress (current grade C or better)

U Unsatisfactory progress (current grade less than C)

UX Unsatisfactory due to lack of attendance

Repeat/Repetition of Courses

Students may repeat a class one time only, regardless of the grade earned, unless otherwise stated in the course description. When a student repeats a course at Anne Arundel Community College, the most recent grade from Anne Arundel Community College is used to compute the adjusted GPA. However, grades for each attempt remain on the student record and transcript. Students who wish to repeat a course must repeat the course at Anne Arundel Community College for the repeat policy to apply. Grades earned at other institutions in courses for which grades were earned at Anne Arundel Community College do not adjust the grades earned at Anne Arundel Community College, nor do they alter the grade point average. To request to repeat a class more than one time, a student must meet with an academic advisor to petition the Committee on Academic Standards. Students may repeat developmental ENG and ACL courses until successful completion, with no limitation on the number of attempts and without filing a petition. Students should be aware that federal financial aid regulations limit the number of times a student can receive federal financial aid for a graded class.

Forgiveness of Courses

Students who have demonstrated academic progress in a new program of study may petition the Committee on Academic Standards to request academic forgiveness of courses that cannot be applied to meet a program requirement in their new program of study. If the Committee on Academic Standards approves the request for academic forgiveness, the courses will still appear on the student's transcript, but are marked as forgiven and are not included in the adjusted grade point average. It is important to note that all courses not applicable to the new program of study will be forgiven, regardless of grade earned. In some cases, this procedure will have a negative effect on the student's adjusted grade point average. All requests must be carefully reviewed with an academic advisor before submitting a petition.

Some courses restrict award of credit based on overlap of content as noted in the course description. Students who take two courses for which they cannot receive credit for both will have one of the courses marked as forgiven. However, both grades remain on the student's record and transcript.

Courses cannot be forgiven after a degree or certificate has been awarded. However, a student who has demonstrated progress toward a new program of study may request course forgiveness for courses that could not be applied to a previously awarded degree or certificate.

Please note: Having courses forgiven will usually not resolve any Financial Aid Satisfactory Academic Progress (SAP) violations caused by the forgiven courses. If courses are forgiven, the Financial Aid SAP Policy will use the new adjusted grade point average, but the forgiven course credits will still be counted as attempted credits. See Financial Aid webpage for more information.

Academic Clemency

Academic Clemency is designed to provide former Anne Arundel Community College credit students, who have not been enrolled at the college for a minimum of five years, an opportunity to return to Anne Arundel Community College without the burden of previous poor academic performance (i.e., grades of D, F or FX). Upon re-enrollment at Anne Arundel Community College after at least a 5 year absence, students who have demonstrated academic progress by completion of a minimum of 12 credits with a minimum grade of

"C" in all courses attempted, may petition the Committee on Academic Standards for Academic Clemency. If the Committee on Academic Standards approves the request for Academic Clemency, the student may choose a maximum of 15 credits be forgiven based on Academic Clemency. The 15-credit clemency is intended as a one time use regulation per student. The courses will still appear on the student's transcript, but are marked as forgiven based on Academic Clemency and not included in the adjusted grade point average. Courses that are forgiven for Academic Clemency cannot be applied towards a degree or certificate. Academic Clemency may only be granted to courses taken at Anne Arundel Community College and only to students currently enrolled at the college. The request for Academic Clemency must be approved prior to the student being awarded a degree or certificate and may be granted one time only. Developmental courses will not be considered for Academic Clemency.

Regardless of whether classes and grades are forgiven by AACC, all attempted classes and grades will be included in the calculation of Satisfactory Academic Progress and used to confirm eligibility for Financial Aid. The calculation utilizing all grades for required courses is consistent with the U.S. Department of Education Regulations. Students should consult with the Financial Aid Office regarding individual circumstances.

Military Deployment (Accommodations, Withdrawals & Incompletes)

Reasonable accommodation will be granted to students showing satisfactory academic progress who are called to military service (appropriate documentation is required). All active duty and reserve military students should check with instructors on or before the first day of class to determine course policy with regard to short term deployment (e.g. the attendance policy for the course). Most courses are structured such that a single deployment of one to two weeks during a term allow for the student to complete the work missed upon return or take an incomplete. Incompletes may be taken only with permission and cooperation of the instructor and must be requested by the student. It is the responsibility of the student to complete all work missed whether taking an incomplete or completing the work in a timely manner within the term enrolled. Students taking an incomplete should refer to the Incomplete Work section. Student communication with the instructor is key.

However, a few courses have internal or external requirements such that make-up work cannot be accommodated. Students deployed while taking such a course must withdraw (see below). Students showing satisfactory academic progress and having to leave a program due to military service requirements must withdraw from the course(s) and will be allowed to re-enter the program by retaking the course or courses from which they had to withdraw. There are courses in some programs in which the student may be able to take an "incomplete" and finish the course in cooperation with the instructor, even with deployments that extend beyond one to two weeks of time. Military students suspending studies in courses with required lab components, clinical components, and/or competency requirements will be allowed re-entry provided the student meets standard departmental and/or program entry requirements. The student will be re-entered into an open seat in the next available class cycle.

Academic Regulations on Graduation Requirements

Graduation Procedures and Deadlines

If a student and their advisor have determined that the student has fulfilled or will fulfill all graduation requirements by the last day of the term, the student must submit an application for graduation according to the following schedule in order to be reviewed for graduation for the specified term. Students must complete and submit a graduation application regardless if they will attend the commencement ceremony. The college will not retroactively date a degree or certificate to a previous term. Students must submit a graduation application through MyAACC.

For **Spring** graduation: By March 1
For **Summer** graduation: By July 1
For **Fall** graduation: By November 1

Applications are good for only one term. Students who do not qualify in the term for which they apply are required to reapply by the deadline for the term in which they will meet all the graduation requirements and wish to graduate.

Summer graduates, fall graduates and spring graduation candidates are invited to attend the spring commencement ceremony.

Students must be in good financial standing with the College, all accounts paid in full, to receive their diploma/transcripts and to attend the commencement ceremony.

Graduation Honors

Latin honors of cum laude, magna cum laude and summa cum laude indicate the level of academic distinction attained by the members of the graduating class who have completed an associate degree. These Graduation Honors are designated on a student's

academic record based on all grades earned from Anne Arundel Community College at the time of award of degree. Graduation Honors are awarded to associate degree recipients whose adjusted cumulative grade point average (GPA) are:

- (a) 3.400 to 3.599 - cum laude;
- (b) 3.600 to 3.799 - magna cum laude; and
- (c) 3.800 to 4.000 - summa cum laude.

Courses Cancelled in Students' Final Term

Students, who in their last term before graduation, have a required course cancelled should immediately contact their department chair to request substitution of another course for graduation.

Associate Degree Requirements

To qualify for any associate degree, students must fulfill the following requirements:

Completion of a minimum of 60 credit hours, 15 of which must be earned at Anne Arundel Community College. At least half of the credit hours required for a degree must be earned through direct classroom instruction (including online/distance learning classes).

Achievement of an adjusted cumulative grade point average of 2.00 or higher.

Completion of the course and general education requirements of a program or curriculum as described in the college catalog. Any catalog may be used provided that it is for the current year or one of the four preceding academic years, and is for a year in which the student completed at least one credit or developmental class. On a student's application for graduation he/she will declare the catalog year to be used.

Submission of a graduation application through MyAACC by the deadline.

Additional Associate Degree

To earn more than one associate degree at Anne Arundel Community College, students must:

Fulfill all program requirements for each degree in accordance with college requirements as stated above.

Submit a graduation application through MyAACC by the deadline.

Similar Degrees (Registrar's Guidelines)

In cases where a similar degree, as determined by the Registrar, has been renamed from a previous catalog year, students can only receive that degree from one catalog.

Posthumous Degrees or Certificates

Anne Arundel Community College has authority to award posthumous degrees or certificates. Upon request of a family member the review and determination to award a posthumous degree or certificate will be conducted by the Registrar on a case-by-case basis.

Certificate Requirements

To qualify for a certificate, students must meet the following requirements:

Completion of the course requirements of a program as described in the college catalog. At least 25 percent of the total credit hours in the program must be earned at Anne Arundel Community College. At least half of the credit hours required for a certificate must be earned through direct classroom instruction (including online/distance learning classes). Any catalog may be used provided that it is for the current year or one of the four preceding academic years, and is for a year in which the student completed at least one credit or developmental class. On a student's application for graduation he/she will declare the catalog year to be used.

Demonstrated eligibility for ENG 101/ENG 101A.

Achievement of an adjusted cumulative GPA of 2.00 or higher.

Submission of a graduation application through MyAACC by the deadline.

Students who qualify for graduation for a degree that has a stackable certificate may also be awarded the certificate.

Letter of Recognition

To qualify for a Letter of Recognition, students must complete the courses for the letter as stated under areas of study in the catalog. At least 50 percent of the total credit hours in the letter of recognition must be earned at Anne Arundel Community College. Students must apply for the letter of recognition at the Records and Registration office. There is no fee for a letter of recognition. Letters of recognition are not a formal award and therefore not noted on the official transcript.

Fast Track Option

For associate of applied science (A.A.S.) degree programs that have been identified as having a Fast Track Option, general education, diversity, technology and wellness requirements are considered satisfied for those students who have earned an associate, baccalaureate, or master's degree from a U.S. regionally accredited college or university and whose program of study included at least 20 credit hours of general education courses (excluding physical education activity courses). Students must fulfill all other graduation requirements. Official transcripts from all previous institutions attended must be submitted to the Records and Registration office.

For all other degree programs that have been identified as having a Fast Track Option, general education, diversity, technology and wellness requirements are considered satisfied for those students who have earned an associate, baccalaureate, or master's degree from a U.S. regionally accredited college or university and whose program of study included at least 30 credit hours of general education courses (excluding physical education activity courses). Students must fulfill all other graduation requirements. Official transcripts from all previous institutions attended must be submitted to the Records and Registration office.

Reverse Transfer Award of the Associate Degree

Reverse transfer award of the associate degree (reverse transfer) allows a student who transferred to a four-year institution prior to earning an associate degree to transfer credits back to Anne Arundel Community College to fulfill the remaining requirements for the associate degree while continuing to work toward a bachelor degree. The Records and Registration office reviews coursework from Anne Arundel Community College and the four-year institution to determine if the remaining course requirements have been completed at the four-year institution for the award of an associate degree. College transfer credit criteria and graduation requirements apply to reverse transfer students. Students should complete the reverse transfer degree application form found on the reverse transfer website and send all official transcripts to initiate the review.

Academic Regulations on Probation and Dismissal

Academic Probation
Academic Standing Table
Dismissal and Reinstatement
Good Academic Standing

Good Academic Standing

Students who have an adjusted grade point average (GPA) of 2.00 or higher are in good standing. Students' academic standing cannot be changed until 12 credit hours of credit courses have been attempted. Thereafter, students are governed by the academic standing table which follows.

Academic Probation

Students who have an adjusted cumulative GPA below a 2.00 are placed on academic probation. Students on academic probation may enroll in up to 14 credit hours during a 13-15-week session, up to 7 credit hours during a 5-12-week session, and up to 4 credit hours during a 4-week or less session.

After any change in academic standing, no further change can be made until at least 12 more credit hours have been attempted. However, students may be removed from academic probation at the end of any term during which their overall grade point average is a 2.00. Students on probation who achieve a term GPA of 3.00 or better, while earning at least nine hours of credit during one term, will be in good standing for the following term.

The academic standing of students whose grade point average is below 2.00 is determined by the following table.

Academic Standing Table

Adjusted Cumulative Credit Hours Attempted	Adjusted GPA for Probation	Adjusted GPA for Dismissal
0-11	0-1.99	-
12-14	1.00-1.99	.99 or less
15-17	1.15-1.99	1.14 or less
18-20	1.34-1.99	1.33 or less
21-23	1.40-1.99	1.39 or less
24-26	1.50-1.99	1.49 or less
27-29	1.56-1.99	1.55 or less
30-32	1.60-1.99	1.59 or less
33-35	1.64-1.99	1.63 or less
36-38	1.67-1.99	1.68 or less
39-41	1.69-1.99	1.68 or less
42-44	1.76-1.99	1.75 or less
45-47	1.80-1.99	1.79 or less
48-50	1.81-1.99	1.80 or less
51-53	1.82-1.99	1.81 or less
54-56	1.85-1.99	1.84 or less
57-59	1.89-1.99	1.88 or less
60 or above	1.90-1.99	1.89 or less

Dismissal for Academic Reasons and Reinstatement

Students who have attempted 12 or more credit hours of credit courses and whose adjusted cumulative grade point average falls in the dismissal zone specified in the academic standing table will be dismissed. Students will not be subject to academic dismissal, however, until they have attempted at least 12 additional credit hours since their most recent change in academic standing (dismissal or probation).

First Dismissal

Students who have been dismissed one time from the college for academic reasons and who wish to be reinstated must:

- Meet with an academic advisor to develop a suitable academic plan. The academic advisor will help the student identify strategies to assure academic success. The student will be directed to use college academic support services and encouraged to develop realistic goals.

After meeting with an academic advisor, the student will be permitted to register for courses. For the initial term returning after a first dismissal, readmitted students may register with the following restrictions:

Readmitted students may only register for two courses which must be repeats of courses in which they earned D or F grades. Both courses may be taken concurrently in terms of 13 weeks or longer. A course taken in a term of less than 13 weeks must be taken with no other concurrent courses.

The Student Success course (ACA 100) is strongly recommended and may be added as a third course.

Second Dismissal

Students who have been dismissed twice from the college for academic reasons and who wish to be reinstated must:

Sit out one 15-week term before being eligible for reinstatement.

Meet with an academic advisor to develop a suitable academic plan. The academic advisor will help the student identify strategies to assure academic success. The student will be directed to use college academic support services and encouraged to develop realistic goals.

After meeting with an academic advisor, the student will be permitted to register for courses in accordance with the restrictions for a First Dismissal.

Further Dismissals

Students who have been dismissed more than twice from the college for academic reasons and who wish to be reinstated must:

Sit out one 15-week term prior to meeting with an academic advisor.

Make a substantial case for reinstatement by meeting with an academic advisor. During this meeting, an advisor will help you access your academic standing, offer suggestions on the best presentation of your written appeal to the Committee on Academic Standards, assist you in creating a detailed educational plan, and help you develop an alternative plan in case you are not reinstated to the college. Any supporting documentation of serious circumstances that have affected your academic performance should be included in your appeal. The Committee will consider your circumstances prior to rendering a decision.

See also AACC Code of Student Conduct.

Academic Regulations on Registration and Attendance

Class Attendance

Regular attendance is expected of students who are registered in face-to-face courses and in distance education classroom environments.

For hybrid courses, attendance is defined as regular and substantive student participation in virtual learning activities as well as attendance at required face-to-face meetings.

For online courses, attendance is defined as regular and substantive student participation in virtual learning activities.

Attendance requirements and policies specific to each course are stated in the course syllabus. Students should be aware that lack of regular attendance and/or lack of substantive student participation as appropriate for the course format will adversely affect their grades in those classes in which attendance is a stated requirement. For courses in which attendance is not a stated requirement, student grades may be adversely affected by failure to satisfactorily complete assignments and course work.

Regular attendance and active participation promote student success.

Visitors (Guests)

Only students officially registered for a course may attend.

No visitors (including children, family members or substitutes) shall be allowed to attend or participate in any course without the permission of the faculty member.

Attendance Records

Attendance is taken and recorded in all classes. Instructors are required to submit student attendance for all students enrolled in all sections through the MyAACC portal. For sections with scheduled meeting days and times, student attendance is recorded for each class meeting. For online, online blended, hybrid, clinicals, practicums, and independent study sections, participation is recorded once a week. Attendance is not recorded separately for lab classes associated with a lecture class. Several times each term, Assistant Deans

and department chairs are notified of instructors who fail to submit attendance. Students with questions about attendance will be referred to their instructor.

Determining Placement

AACC offers many ways for students to place into courses. These include high school GPA, high school standardized testing, and the Accuplacer placement exam. All students who wish to earn a degree or certificate must be assessed. Prior to assessment, students are placed in a provisional status and may enroll in courses that do not require English and/or math eligibility.

Students using Accuplacer for placement may retest for English one time. Retesting in English is not allowed after attending or starting English or Academic Literacies classes. Students wishing to retest in mathematics must take a refresher course or seek permission from the math department. Retesting in mathematics is not allowed after enrollment in mathematics classes. Attempting to take an assessment test more than the approved policy allows violates the college's Academic Integrity Policy. Any assessment test score which is found to be the result of unauthorized repeat testing will be discarded.

Credit Limitations

Placement Status Maximum Concurrent Credit Hours Limits by Session Length

The chart below documents the maximum number of credits for which a student may be concurrently enrolled based on their placement status and the length of session in which the course(s) is scheduled.

Status/Standing	13-15 Week Session	5-12 Week Session	4 Weeks or Less Session
English Composition Eligible	18	10	6
Provisional	13	10	4

Note: Academic standing also impacts the maximum credit hours per term.

An exception to the limitation on credit hours may be granted by an academic advisor for a student with English Composition Eligible status if the student has an adjusted cumulative grade point average (GPA) of 3.00 or higher that includes at least one full-time term of courses for which a GPA of 3.00 has been earned.

Credit and equivalent hours are noted near course titles in the Courses section of this catalog. Limitations on credit hours are calculated as the sum of all the credit hours and equivalent hours for which a student registers for a given term.

Registration/Enrollment/Changing a Schedule

Audit/Auditing Courses

Students who wish to be under no obligation for regular attendance, preparation, recitation or examination, and who do not wish to receive any credit, may register for a course for audit (AU). In a 15-week term, students may change registration status between credit and audit during the first three weeks of classes. For terms shorter than 15 weeks, the audit period will be defined proportionately.

Since no credit hours are attempted or earned and no quality points are given for an audited class, the course will not be included in calculation of the student's grade point average. Audited courses are not eligible for graduation requirements, calculation toward students' full-time or part-time enrollment status or toward financial aid. The designator AU will be entered on the student's academic record. Regular tuition and fees apply to audited courses. A student may not receive credit for a course that is audited.

Honors Versions of Classes (Registrar's Guidelines)

AACC offers qualified students the opportunity to participate in an Honors Program. Honors versions of courses are identified by the letter H at the end of the course prefix. For example, SPA-111H, Elementary Spanish is the honors version of SPA 111. The prerequisites, lab fees, and other characteristics for the non-honors version of a course also pertain to the honors version. The honors version of the course has additional requirements as described in the course listing of the College catalog. Furthermore, if the non-honors version of the course serves as a prerequisite, corequisite or requirement for a major or program, the honors version of the course will also meet the same requirements. Credit cannot be awarded for both the non-honors and honors version of the same course.

Register/Add/Adding Classes/Class Enrollment

Students must register for class before the first scheduled class meeting. In the case of online or hybrid classes, a student must register the day before the first day of the session. Students must register for a course before they enter or participate in the class and may not enroll after the established last day to add a class. Students must switch class sections of a course or add a course during the add period. Visit <https://www.aacc.edu/apply-and-register/credit-application/register-for-credit-classes/> for details about on-time registration deadlines.

Drop/Dropping Courses

On or before the drop deadline (see chart), students may drop a course, which means that all entries for the course are dropped completely from students' transcripts. To accomplish this, a student must drop the course through MyAACC or submit a Credit Registration • Add • Drop Form to the Records and Registration office. All courses in which a student is enrolled after the final drop date will be entered permanently into their academic record.

When students stop attending and do not drop or withdraw from a class, they will receive a failing grade and they will continue to be financially responsible for all tuition and fees.

Withdraw/Withdrawal from Courses

A student may withdraw from a class after the final drop date through the 12th week of a 15 week session or the equivalent date in a shorter session. When a student withdraws an entry of W signifying withdrawal is entered into their record. To accomplish this, a student must withdraw from the course through MyAACC or submit a Credit Registration • Add • Drop Form to the Records and Registration office. For additional information, contact the Records and Registration office at records@aacc.edu.

Late Withdraw

After the final withdrawal date and through the last day of classes, as specified in the academic calendar, students may make a request to withdraw from the college or from individual courses by consulting with an academic advisor in the Advising & Transfer Advising office, obtaining an advisor's signature on a late withdrawal form, and filing the late withdrawal form at the Records and Registration office. Students who are passing on the date of the withdrawal will be assigned a grade indicator of WP (withdraw passing) on their permanent record. Students who are failing on the date of the withdrawal will receive a grade of F.

Students who have withdrawn and received a grade of F may petition the Committee on Academic Standards (see Petitions to Committee on Academic Standards) to authorize the instructor to change the grade of F to WF (withdraw failing). Such students must provide verification to the committee that they could not complete the course for one of the following reasons:

- Death in immediate family.
- Student incapacitated due to serious illness.
- Change in hours or location of employment.
- Uncontrollable circumstances of a serious nature.

Students who have more than 10 entries of W, WP and WF may be required to meet with an academic advisor to review their educational plan before their next registration.

Students receiving financial aid should consult the Satisfactory Academic Progress (SAP) Policy before withdrawing from any courses.

Drop/Withdraw/Refund Deadlines

Note: The last day upon which courses may be dropped is emailed to the student's MyAACC email upon registration in the section. After the drop deadline, a student may withdraw from a class through the 12th week of the 15th week session. For terms shorter than 15 weeks, the withdraw period will be defined proportionately.

FOR CLASSES SCHEDULED EIGHT WEEKS OR MORE

FOR CLASSES SCHEDULED SEVEN WEEKS OR FEWER

Students may drop the class for five calendar days after the date of the first scheduled class meeting and receive a full refund.	Students may drop the class for two calendar days after the date of the first scheduled class meeting and receive a full refund. No refunds will be given after that date.
Students have five additional calendar days to withdraw from the class and receive a 60% reduction of the tuition, general student fees and lab fees charged for the class.	For hybrid, online, and online blended classes, the first day of the session is considered the first scheduled class meeting.
If a student withdraws more than 10 calendar days after the date of the first scheduled class meeting, no refunds will be issued.	
For hybrid, online, and online blended classes, the first day of the session is considered the first scheduled class meeting.	

Academic Regulations on Student Athlete Eligibility

Student Athlete Eligibility

Upon recommendation of the Director of Athletics the Registrar confirms that each student entered on the National Junior College Athletic Association (NJCAA) eligibility form meets the eligibility requirements established by the NJCAA prior to the student's participation in an official game.

Title 13B Maryland Higher Education Commission

3B.06.01.00

Title 13B MARYLAND HIGHER EDUCATION COMMISSION

Subtitle 06 GENERAL EDUCATION AND TRANSFER

Chapter 01 Public Institutions of Higher Education

Authority: Education Article, §§11-105(u), 11-207 and Title 11, Subtitle 2, Annotated Code of Maryland
Sec. 13b.06.01.02. Definitions

A. In this chapter, the following terms have the meanings indicated.

B. Terms Defined.

(1) "A.A. degree" means the Associate of Arts degree.

(2) "A.A.S. degree" means the Associate of Applied Sciences degree.

(3) "A.A.T. degree" means the Associate of Arts in Teaching degree.

(4) "A.F.A. degree" means the Associate of Fine Arts degree.

(5) "Arts" means courses that examine aesthetics and the development of the aesthetic form and explore the relationship between theory and practice.

(6) "A.S. degree" means the Associate of Sciences degree.

(7) "A.S.E. degree" means the Associate of Science in Engineering degree.

(8) "Associate's degree" includes an:

(a) A.A. degree;

(b) A.S. degree;

(c) A.A.S. degree;

(d) A.A.T. degree;

(e) A.F.A. degree; and

(f) A.S.E degree.

(9) "Biological and physical sciences" means courses that examine living systems and the physical universe. They introduce students to the variety of methods used to collect, interpret, and apply scientific data, and to an understanding of the relationship between scientific theory and application.

(10) "Cumulative grade point average" means the average of grades received for completed coursework at all institutions attended.

(11) "English composition courses" means courses that provide students with communication knowledge and skills appropriate to various writing situations, including intellectual inquiry and academic research.

(12) "General education" means the foundation of the higher education curriculum providing a coherent intellectual experience for all students.

(13) "General education program" means a program that is designed to:

- (a) Introduce undergraduates to the fundamental knowledge, skills, and values that are essential to the study of academic disciplines;
- (b) Encourage the pursuit of life-long learning; and
- (c) Foster the development of educated members of the community and the world.

(14) "Humanities" means courses that examine the values and cultural heritage that establish the framework for inquiry into the meaning of life.

(15) "Mathematics" means courses that provide students with numerical, analytical, statistical, and problem-solving skills.

(16) "Native student" means a student whose initial college enrollment was at a given institution of higher education and who has not transferred to another institution of higher education since that initial enrollment.

(17) "Parallel program" means the program of study or courses at one institution of higher education that has parallel courses and comparable objectives as those at another higher education institution, for example, a transfer program in psychology in a community college is definable as a parallel program to a baccalaureate psychology program at a 4-year institution of higher education.

(18) "Receiving institution" means the institution of higher education at which a transfer student currently desires to enroll.

(19) "Recommended transfer program" means a planned program of courses, both general education and courses in the major, taken at a community college, which is applicable to a baccalaureate program at a receiving institution, and ordinarily the first half of the baccalaureate degree.

(20) "Reverse transfer" means a process whereby credits that a student earns at any public senior higher education institution in the State toward a bachelor's degree are transferrable to any community college in the State for credit toward an associate's degree.

(21) "Sending institution" means the institution of higher education of most recent previous enrollment by a transfer student at which transferable academic credit was earned.

(22) "Social and behavioral sciences" means courses that are concerned with the examination of society and the relationships among individuals within a society.

(23) "Transfer student" means a student entering an institution for the first time having successfully completed a minimum of 12 semester hours at another institution that are applicable for credit at the institution the student is entering.

Sec. 13b.06.01.02-1. Admission of Transfer Students to Public Institutions

A. Admission to Institutions.

(1) Subject to §B of this regulation, a student attending a public institution who has completed an associate's degree or who has completed 60 or more semester hours of credit, may not be denied direct transfer to another public institution if the student attained a cumulative grade point average of at least 2.0 on a 4.0 scale or its equivalent at the sending institution, except as provided in §A(4) of this regulation.

(2) Subject to §B of this regulation, a student attending a public institution who has not completed an associate's degree or who has completed fewer than 60 semester hours of credit, is eligible to transfer to a public institution regardless of the number of credit hours earned if the student:

- (a) Satisfied the admission criteria of the receiving public institution as a high school senior; and
- (b) Attained at least a cumulative grade point average of 2.0 on a 4.0 scale or its equivalent at the sending institution.

(3) Subject to §B of this regulation, a student attending a public institution who did not satisfy the admission criteria of a receiving public institution as a high school senior, but who has earned sufficient credits at a public institution to be classified by the receiving public institution as a sophomore, shall meet the stated admission criteria developed and published by the receiving public institution for transfer.

(4) If the number of students seeking admission exceeds the number that can be accommodated at a receiving public institution, admission decisions shall be:

- (a) Based on criteria developed and published by the receiving public institution on the institution's website; and
- (b) Made to provide fair and equal treatment for native and transfer students.

B. Admission to Programs.

(1) A receiving public institution may require additional program admission requirements to some programs if the standards and criteria for admission to the program:

- (a) Are developed and published by the receiving public institution; and
 - (b) Maintain fair and equal treatment for native and transfer students.
- (2) Courses taken at a public institution as part of a recommended transfer program leading toward a baccalaureate degree shall be applicable to related programs at a receiving public institution granting the baccalaureate degree.

C. Receiving Institution Program Responsibility.

- (1) The faculty of a receiving public institution is responsible for development and determination of the program requirements in major fields of study for a baccalaureate degree, including courses in the major field of study taken in the lower division.
- (2) A receiving public institution may set program requirements in major fields of study which simultaneously fulfill general education requirements.
- (3) A receiving public institution, in developing lower division course work, shall exchange information with other public institutions to facilitate the transfer of credits into its programs.
- (4) A receiving public institution shall ensure that any changes to program standards and criteria for admission and the transfer of credits maintain the fair and equal treatment of native and transfer students, and are communicated in a timely manner.

Sec. 13b.06.01.03. General Education Requirements for Public Institutions

A. While public institutions have the autonomy to design their general education program to meet their unique needs and mission, that program shall:

- (1) Incorporate coursework in each of the following core areas, at a minimum:
 - (a) Arts and humanities;
 - (b) Social and behavioral sciences;
 - (c) Biological and physical sciences;
 - (d) Mathematics; and
 - (e) English composition;
- (2) Conform to the definitions and common standards in this chapter; and
- (3) Incorporate the general education knowledge and skills required by the Middle States Commission on Higher Education Standards for Accreditation.

B. A public institution shall require each:

- (1) Program leading to an A.A. or A.S. degree to include at least 28, but not more than 36, credit hours of general education courses;
- (2) Associate's degree program that does not lead to an A.A. or A.S. degree to include at least 18, but not more than 36, credit hours of general education courses; and
- (3) Bachelor's degree program to include at least 38, but not more than 48, credit hours of general education courses.

C. Each course used to satisfy the credit requirements of §B of this regulation shall carry at least 3 credit hours.

D. General education programs within the A.A. or A.S. degree or the bachelor's degree at public institutions shall require at least:

(1) Two courses in arts and humanities;

(2) Two courses in social and behavioral sciences;

(3) Two science courses, at least one of which shall be a laboratory course;

(4) One course in mathematics, having performance expectations demonstrating a level of mathematical maturity beyond the Maryland College and Career Ready Standards in Mathematics (including problem-solving skills, and mathematical concepts and techniques that can be applied in the student's program of study); and

(5) One course in English composition, completed with a grade of C- or better.

E. Institution-Specific Requirements.

(1) In addition to the five required areas in §A(1) of this regulation, a public institution may include up to 8 credit hours in coursework outside the five areas. These courses may be integrated into other general education courses or may be presented as separate courses. Examples include, but are not limited to, Health, Diversity, and Computer Literacy.

(2) Public institutions may not include the courses in this section in a general education program unless they provide academic content and rigor equivalent to the areas in §A(1) of this regulation.

F. A course in a discipline listed in more than one of the areas of general education may be applied only to one area of general education.

G. A public institution may allow a speech communication or foreign language course to be part of the arts and humanities category.

H. Composition and literature courses may be placed in the arts and humanities area if literature is included as part of the content of the course.

I. Public institutions may not include physical education skills courses as part of the general education requirements.

J. General education courses shall reflect current scholarship in the discipline and provide reference to theoretical frameworks and methods of inquiry appropriate to academic disciplines.

K. Courses that are theoretical may include applications, but all applications courses shall include theoretical components if they are to be included as meeting general education requirements.

L. Each public institution shall designate on the student transcript those courses that have met a general education requirement, including the specific core area or requirement it has fulfilled under this regulation.

Sec. 13b.06.01.04. Transfer of Education Program Credit

A. Transfer of Credit to Another Public Institution.

(1) Credit earned at any public institution in the State is transferable to any other public institution if the:

(a) Credit is from a college or university parallel course or program;

(b) Grades in the block of courses transferred average 2.0 or higher; and

(c) Acceptance of the credit is consistent with the policies of the receiving institution governing native students following the same program.

(2) If a native student's "D" grade in a specific course is acceptable in a program, then a "D" earned by a transfer student in the same course at a sending institution is also acceptable in the program. Conversely, if a native student is required to earn a grade of "C" or better in a required course, the transfer student shall also be required to earn a grade of "C" or better to meet the same requirement.

B. Credit Earned in or Transferred From a Community College.

- (1) Except as provided in §B(5) of this regulation, at least 60 credits but not more than 70 credits of general education, elective, and major courses that a student earns at any community college in the State toward an associate's of art or an associate's of science degree shall be transferrable to any public senior higher education institution in the State for credit toward a bachelor's degree.
- (2) To be transferrable, a credit shall have been earned in accordance with the student's degree plan.
- (3) Courses taken at a public institution as part of a recommended transfer program leading toward a baccalaureate degree shall be applicable to related programs at the receiving public institution granting the degree if successfully completed in accordance with the receiving institution's policies governing native students in the same program.
- (4) Students earning an A.A.S. or A.F.A. degree shall have their credits evaluated in a manner that maximizes the transfer of articulated and elective credit.
- (5) A community college and a public senior higher education institution may provide in an articulation agreement for the transfer of credits in addition to credits transferred under §B(1) of this regulation.

C. Nontraditional Credit.

- (1) The assignment of credit for AP, CLEP, or other nationally recognized standardized examination scores presented by transfer students is determined according to the same standards that apply to native students in the receiving institution, and the assignment shall be consistent with the State minimum requirements.
- (2) Transfer of credit from the following areas shall be consistent with COMAR 13B.02.02. and shall be evaluated by the receiving institution on a course-by-course basis according to the same standards that apply to native students at the receiving institution:
 - (a) Technical courses from career programs;
 - (b) Course credit awarded through articulation agreements with other segments or agencies, which should be developed in collaboration with all public institutions, including course credit awarded by articulation with Maryland public secondary schools;
 - (c) Credit awarded for clinical practice or cooperative education experiences;
 - (d) Credit awarded for life and work experiences; and
 - (e) Credit awarded for training, coursework, or education through the military.
- (3) The basis for the awarding of the credit shall be indicated on the student's transcript by the receiving institution.
- (4) The receiving institution shall inform a transfer student of the procedures for validation of course work for which there is no clear equivalency. Examples of validation procedures include ACE recommendations, portfolio assessment, credit through challenge, examinations, and satisfactory completion of the next course in sequence in the academic area.
- (5) The receiving baccalaureate degree-granting institution shall use validation procedures when a transferring student successfully completes a course at the lower-division level that the receiving institution offers at the upper-division level. The validated credits earned for the course shall be substituted for the upper-division course.

D. Program Articulation.

- (1) Recommended transfer programs shall be developed through collaboration between the sending and receiving institutions. A recommended transfer program represents an agreement between the two institutions that allows students aspiring to the baccalaureate degree to plan for seamless transfer. These programs constitute freshman/sophomore level course work to be taken at the community college in fulfillment of the receiving institution's lower division course work requirement.
- (2) Recommended transfer programs in effect at the time that this regulation takes effect, which conform to this chapter, may be retained.

E. Reverse Transfer of Credit

(1) Subject to §E(2) of this regulation, a community college shall accept for reverse transfer any credits that an individual earned at a public senior institution up to 45 credits. Credits in excess of 45 credits may be accepted in accordance with the community college's policy.

(2) To be eligible for the transfer of credit under §E(1) of this regulation, a student shall have completed at least 15 credits at the community college to which the credits are transferred.

(3) Community colleges and public senior institutions shall develop a process to identify students eligible for reverse transfer at no cost to the student.

F. Transfer of General Education Credit

(1) A student transferring to one public institution from another public institution shall receive general education credit for work completed at the student's sending institution as provided by this chapter.

(2) A completed general education program shall transfer without further review or approval by the receiving institution and without the need for a course-by-course match.

(3) Courses that are defined as general education by one institution shall transfer as general education even if the receiving institution does not have that specific course or has not designated that course as general education.

(4) A Maryland community college shall accept 28-36 credits of general education as specified in Regulation .03(C) of this chapter as completion of the general education requirements at the community college, without further review or the need for a course-by-course match.

(5) The receiving institution shall give lower-division general education credits to a transferring student who has taken any part of the lower-division general education credits described in Regulation .03 of this chapter at a public institution for any general education courses successfully completed at the sending institution.

(6) Except as provided in Regulation .03M of this chapter, a receiving institution may not require a transfer student who has completed the requisite number of general education credits at any public college or university to take, as a condition of graduation, more than 10-18 additional semester hours of general education and specific courses required of all students at the receiving institution, with the total number not to exceed 46 semester hours. This provision does not relieve students of the obligation to complete specific academic program requirements or course prerequisites required by a receiving institution.

(7) Each public institution shall designate on or with the student transcript those courses that have met its general education requirements, as well as indicate whether the student has completed the general education program.

(8) Associate's Degrees.

(a) While there may be variance in the numbers of hours of general education required for associate's degrees at a given institution, the courses identified as meeting general education requirements for all degrees shall come from the same general education course list and exclude technical or career courses.

(b) A student possessing an associate's degree who transfers into a receiving institution with fewer than the total number of general education credits designated by the receiving institution shall complete the difference in credits according to the distribution as designated by the receiving institution. Except as provided in Regulation .03M of this chapter, the total general education credits for baccalaureate degree-granting public receiving institutions may not exceed 46 credits.

(9) Student Responsibilities. A student is held:

(a) Accountable for the loss of credits that:

(i) Result from changes in the student's selection of the major program of study;

(ii) Were earned for remedial course work; or

(iii) Exceed the total course credits accepted in transfer as allowed by this chapter; and

(b) Responsible for meeting all requirements of the academic program of the receiving institution.

Sec. 13b.06.01.05. Academic Success and General Well-Being of Transfer Students

A. Sending Institutions.

- (1) Community colleges shall encourage their students to complete the associate degree in a recommended transfer program that includes both general education courses and courses applicable toward the program at the receiving institution.
- (2) Community college students are encouraged to choose as early as possible the institution and program into which they expect to transfer.
- (3) The sending institution shall:
 - (a) Provide to community college students information about the specific transferability of courses and programs to 4-year colleges;
 - (b) Transmit information about transfer students who are capable of honors work or independent study to the receiving institution; and
 - (c) Promptly supply the receiving institution with all the required documents if the student has met all financial and other obligations of the sending institution for transfer.

B. Receiving Institutions.

- (1) Admission requirements and curriculum prerequisites shall be stated explicitly in institutional publications.
- (2) A receiving institution shall admit transfer students from newly established public colleges that are functioning with the approval of the Maryland Higher Education Commission on the same basis as applicants from regionally accredited colleges.
- (3) A receiving institution shall evaluate the transcript or transcripts of a degree-seeking transfer student as expeditiously as possible, and notify the student of the results within 20 working days of the receipt of all official transcripts. The receiving institution shall inform a student of the courses that are acceptable for transfer credit and the courses that are applicable to the student's intended program of study.
- (4) A transfer student shall be provided the same opportunity as a native student to pursue the program and degree requirements that were in effect at the time that the student enrolled at the sending institution provided they have been continuously enrolled and otherwise meet the same requirements of the native student.

Sec. 13b.06.01.06. Programmatic Currency

A. Maryland public institutions shall collaborate to develop and provide to students current and accurate information on transferable programs and courses.

B. Upon approval of new baccalaureate programs, recommended transfer programs shall be developed with each community college.

C. When considering curricular changes, institutions shall notify each other of the proposed changes that might affect transfer students. An appropriate mechanism shall be created to ensure that both 2-year and 4-year public colleges provide input or comments to the institution proposing the change. Sufficient lead time shall be provided to effect the change with minimum disruption. Transfer students are not required to repeat equivalent course work successfully completed at a community college

Sec. 13b.06.01.07. Transfer Mediation Committee

A. Sending and receiving institutions that disagree on the transferability of general education courses as defined by this chapter shall submit their disagreements to the Secretary, who shall appoint a Transfer Mediation Committee to adjudicate the disagreement. Members appointed to the Transfer Mediation Committee shall be representative of the public 4-year colleges and universities and the community colleges.

B. The Transfer Mediation Committee shall address general education issues at the course or curricular level, not individual student cases. As appropriate, the Committee shall consult with faculty on curricular issues.

C. The findings of the Transfer Mediation Committee are considered binding on both parties.

Sec. 13b.06.01.08. Appeal Process

A. Notice of Denial of Transfer Credit by a Receiving Institution.

(1) Except as provided in §A(2) of this regulation, a receiving institution shall inform a transfer student in writing of the denial of transfer credit not later than mid-semester of the transfer student's first semester, if all official transcripts have been received at least 15 working days before mid-semester.

(2) If transcripts are submitted after 15 working days before mid-semester of a student's first semester, the receiving institution shall inform the student of credit denied within 20 working days of receipt of the official transcript.

(3) A receiving institution shall include in the notice of denial of transfer credit:

(a) A statement of the student's right to appeal; and

(b) A notification that the appeal process is available in the institution's catalog.

(4) The statement of the student's right to appeal the denial shall include notice of the time limitations in §B of this regulation.

B. A student believing that the receiving institution has denied the student transfer credits in violation of this chapter may initiate an appeal by contacting the receiving institution's transfer coordinator or other responsible official of the receiving institution within 20 working days of receiving notice of the denial of credit.

C. Response by Receiving Institution.

(1) A receiving institution shall:

(a) Establish expeditious and simplified procedures governing the appeal of a denial of transfer of credit; and

(b) Respond to a student's appeal within 10 working days.

(2) An institution may either grant or deny an appeal. The institution's reasons for denying the appeal shall be consistent with this chapter and conveyed to the student in written form.

(3) Unless a student appeals to the sending institution, the written decision in §C(2) of this regulation constitutes the receiving institution's final decision and is not subject to appeal.

D. Appeal to Sending Institution.

(1) If a student has been denied transfer credit after an appeal to the receiving institution, the student may request the sending institution to intercede on the student's behalf by contacting the transfer coordinator of the sending institution.

(2) A student shall make an appeal to the sending institution within 10 working days of having received the decision of the receiving institution.

E. Consultation Between Sending and Receiving Institutions.

(1) Representatives of the two institutions shall have 15 working days to resolve the issues involved in an appeal.

(2) As a result of a consultation in this section, the receiving institution may affirm, modify, or reverse its earlier decision.

(3) The receiving institution shall inform a student in writing of the result of the consultation.

(4) The decision arising out of a consultation constitutes the final decision of the receiving institution and is not subject to appeal.

Sec. 13b.06.01.09. Periodic Review

A. Report by Receiving Institution.

(1) A receiving institution shall report annually the progress of students who transfer from 2-year and 4-year institutions within the State to each community college and to the Secretary of the Maryland Higher Education Commission.

(2) An annual report shall include ongoing reports on the subsequent academic success of enrolled transfer students, including graduation rates, by major subject areas.

(3) A receiving institution shall include in the reports comparable information on the progress of native students.

B. Transfer Coordinator. A public institution of higher education shall designate a transfer coordinator, who serves as a resource person to transfer students at either the sending or receiving campus. The transfer coordinator is responsible for overseeing the application of the policies and procedures outlined in this chapter and interpreting transfer policies to the individual student and to the institution.

C. The Maryland Higher Education Commission shall establish a permanent Student Transfer Advisory Committee that meets regularly to review transfer issues and recommend policy changes as needed. The Student Transfer Advisory Committee shall address issues of interpretation and implementation of this chapter.

Sec. 13b.06.01.9999. Administrative History

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B.A., University of Arkansas Fayetteville; M.P.A., University of Arkansas Little Rock

ALICIA M. MORSE

Dean of the school of liberal arts and professor, mathematics

B.A., University of Maine; M.S., University of Central Florida

Ph.D., University of Maryland

MEGAN MYERS

Dean of distance education

B.A., Vanderbilt University; M.A., Boston College; Ph.D., Boston College

SCOTT OLDEN

Assistant dean of nursing

B.S., State University of NY, Binghamton; M.A., University of Maryland

Ed.D., Morgan State University

ANNELEZE Z. KRAUS (LISA)

Director of enterprise applications services

B.S., California University of PA; M.B.A., Waynesburg University
Ph.D., University of the Cumberlands

TERRY D. PORTIS

Director of lifelong learning

B.S., Covenant College; M.S., North Carolina A&T State University; Ed.D., Argosy University

TYRONE POWERS

Director of collaboration and special initiatives learning

B.S., Coppin State University; M.P.A., University of Cincinnati;

Ph.D. American University

ERIN K. REEDER

Director of enrollment services integration

A.A., Anne Arundel Community College; B.S., University of Maryland; M.S., Kaplan University; Ed.D, Walden University

MICHAEL A. REES

Director of infrastructure services

B.S., University of Maryland University College

KHADIJAT RICHMOND

Director, transfer advising

B.S., M.Ed., Loyola University Maryland;

Ed.D., Morgan State University

MARTHA D. ROTHSCHILD

Controller

B.S., Bryan College

LISA A. SANFORD

Director of human resources operations

B.S., Penn State University; M.A., Saint Francis University

IDA-MAE M. SASS

Director of continuing education and workforce development operations

A.A., Anne Arundel Community College; B.S., M.S., M.B.A., University of Maryland University College

MICHELE SAVAGE

Director of correctional and continuing education

B.S., M.Ed., University of Maryland University College

KENTINA SMITH

Associate vice president for learning and academic affairs

B.A., University of Maryland College Park; M.S., Ph.D., Walden University

CYNTHIA K. STEINHOFF

Director and professor of library

B.S., Edinboro State College; M.S.L.S., Clarion State College;

M.B.A., University of Baltimore

JAMES M. TAYLOR

Executive director of administrative services

A.A., Essex Community College; B.S., University of Maryland Baltimore County

ANGELO THALASSINIDIS

Assistant dean of technology and acting academic chair for computer information systems

B.S., University of La Verne; M.S., New York Institute of Technology

Ph.D. Stevens Institute of Technology

WENDY C. THOMAS

Director of development

B.A., University of Maryland University College

JOHN W. WILLIAMS

Director of information security

BSME, US Naval Academy; MSEE, US Naval Postgraduate School

MARCUS WRIGHT

Director of transfer, articulation, and career alignment

B.S., Towson University; M.A., University of Maryland College Park

LIZ WULBRECHT

Director of testing and assessment services

B.S., B.A., University of Delaware

M.Ed., University of Maryland College Park

ANDREA C. ZAMORA

Director of the center for faculty and staff development

B.A., Washington College; M.Ed., Towson University;

M.S., Johns Hopkins

Distinguished Senior Lecturers

Note: The date following each person's position is the year in which they began employment at the college.

Amy Allen-Chabot

Distinguished Senior Lecturer

Professor, nutrition and biology, 2000

B.S., Virginia Polytechnic Institute and State University; M.S., University of Maryland; Ph.D., University of Maryland

Fadel H. Arafat

Distinguished Senior Lecturer

Associate professor, economics, 1990

D.L., Damascus University; M.A., University of Maryland; Ph.D., American University

Michael Armstrong

Distinguished Senior Lecturer

Associate Professor, mathematics, 2007

B.A., The Monmouth College; M.A., The Pennsylvania State University

Louis L. Aymard

Distinguished Senior Lecturer

Professor, psychology, 1972

B.A., Mount St. Mary's College; Ph.D., Catholic University of America

E. Ferol Benavides

Distinguished Senior Lecturer

Associate professor, English, 1982

B.A., University of Texas; M.A., St. Mary's University

June K. Bronfenbrenner

Distinguished Senior Lecturer

Professor, Chemistry, 1994

B.S., New College, Sarasota, FL.; M.A., Ph.D., Johns Hopkins University

Lester S. Brooks

Distinguished Senior Lecturer

Professor, history, 1982
B.A., Indiana University; M.A., Howard University; Ph.D., University of Michigan

Robyn S. Brown

Distinguished Senior Lecturer
Professor, legal studies, 2001
B.A., Widener University; J.D., University of Baltimore School of Law

Ellen C. Bungay-Posten

Emeritus, Distinguished Senior Lecturer
Professor, humanities and visual arts, 1969
B.A., Wagner College; M.A., University of Maryland

Paul J. Bushman

Distinguished Senior Lecturer
Professor, biology, 1998
B.S., The College of William and Mary; M.S., The George Washington University; Ph.D., Boston University

Roy D. Carson

Distinguished Senior Lecturer
Professor, business administration, 2003
B.S., State University of New York; M.S., Johns Hopkins University; C.P.A.

Carlene M. Cassidy

Distinguished Senior Lecturer
Professor, entrepreneurial studies, 2002
B.S., Providence College; M.S., Johns Hopkins University

Daniel S. Chesley

Distinguished Senior Lecturer
Professor, mathematics, 1969
B.S., Mount St. Mary's College; M.S., Virginia Polytechnic Institute and State University

Charles Davis

Emeritus, Distinguished Senior Lecturer
Professor, mathematics, 1970
B.S., M.S., University of South Carolina; Ph.D., Catholic University of America

Ronald A. DeAbreu

Distinguished Senior Lecturer
Associate professor, English and communications, 1977
B.A., Towson University; M.A., Boston University

Paul R. Derdul

Distinguished Senior Lecturer
Professor, cybersecurity, networking and digital forensics, 1993
B.S., M.S., John Carroll University; C.C.N.A., C.C.A.I., C.I.S.S.P., Security+, C.E.H.

Ragwinder K. Dhindsa

Distinguished Senior Lecturer
Professor, sociology, 1978
B. Ed., Punjab University; B.A., M.A., Agra University, India; M.Ed., M.S., Montana State University; Ph.D., University of Illinois

Joan B. Doolittle

Distinguished Senior Lecturer
Professor, Psychology, 1970
B.A., Seton Hill College; M.A. University of Rhode Island

Henry L. Dracun

Emeritus, Distinguished Senior Lecturer

Professor, chemistry, 1965

A.B., University of Pennsylvania; Ph.D., Rutgers University

C. Wayne Ehler

Distinguished Senior Lecturer

Professor, mathematics, 1969

B.S., University of Missouri; M.S., U.S. Naval Postgraduate School

Richard L. Faircloth

Emeritus, Distinguished Senior Lecturer

Professor, biology, 1973

B.S., M.S., Ph.D., University of Maryland

A. Lawrie Gardner

Distinguished Senior Lecturer

Professor and academic chair, business administration, 2003

B.A., Towson University; M.B.A., Loyola College in Maryland, C.P.A.

Hugo G. Gemignani

Distinguished Senior Lecturer

Professor, biology, 1968

A.A., Anne Arundel Community College; B.S., M.Ed., Towson University

Ajaipal S. Gill

Emeritus, Distinguished Senior Lecturer

Professor, psychology, 1975

B.A., B.T., Panjab University, India; Diploma in Ed., University of Singapore; M.Ed., Ph.D., American University

Rajwant K. Gill

Distinguished Senior Lecturer

Professor, computer science, 1982

B.S., B.S. honors, M.S., Panjab University, India; M.A., American University; D.A., George Mason University

Marion K. Glasby

Emeritus, Distinguished Senior Lecturer

Professor, mathematics, 1973

B.A., Millersville State College; M.A., University of Massachusetts; Ph.D., University of Maryland

Patricia A. Gregory

Distinguished Senior Lecturer

Professor, computer science, 1991

B.S., University of Maryland; M.S., Bowie State University

Sally J. Gresty

Distinguished Senior Lecturer

Associate professor, emergency medical technician program, 1983

B.S., University of Pittsburgh; M.S., University of Maryland; R.N., NREMT-P

Cheryl A. Hack

Emeritus, Distinguished Senior Lecturer

Professor, biology, 1968

B.S., Carnegie Mellon University; M.A.T., Johns Hopkins University; Ph.D., University of Maryland

Constance S. Hammond

Distinguished Senior Lecturer

Professor, computer technologies, 1994
B.S., M.Ed., University of Maryland

Patricia S. Hanzook

Distinguished Senior Lecturer
Associate professor, health, fitness and exercise studies, 1975
B.S., Salisbury University, M.Ed., Towson University; A.C.E.-C.P.T.

Marie A. Hardink

Distinguished Senior Lecturer
Professor, business administration, 1970
B.B.A., Bryant College; B.S., M.S., University of Rhode Island, C.P.A.

Kathy E. Hays

Distinguished Senior Lecturer
Associate professor, mathematics, 1998
B.S., Purdue University; M.A., Ball State University

H. Joseph Heffelfinger

Distinguished Senior Lecturer
Associate professor, mathematics, 1969
B.A., Anderson College; M.S., Michigan State University

Marlow A. Henderson

Distinguished Senior Lecturer
Associate professor, business administration, 2006
A.A., Community College of Baltimore; B.S., University of Baltimore; M.S. Bowie State University; C.P.A.

Catherine A. Hess

Distinguished Senior Lecturer
Professor, mathematics, 1991
B.A., University of Virginia; M.Ed., Pennsylvania State University

Joanne M. Hilton

Distinguished Senior Lecturer
Associate professor, English, 1971
B.A., Trenton State College; M.A., Montclair State College; C.A.S.L.A., Johns Hopkins University

Sally G. Hornor

Emeritus, Distinguished Senior Lecturer
Professor, biology, 1993
B.A., Goucher College; M.S., Ph.D., University of Connecticut

Gail A. Huff

Distinguished Senior Lecturer
Associate professor, world languages, 1988
B.A., Hanover College; M.A., University of Oregon

Brenda L. Hurbanis

Distinguished Senior Lecturer
Professor, teacher education, 2003
B.S., Frostburg State College; M.Ed., McDaniel College (formerly Western Maryland College); Ed.D., University of Maryland

Sylvia Ingram

Distinguished Senior Lecturer
Professor, psychology, 1982
B.S., Eastern Michigan University; M.A., Ph.D., University of Michigan

John Paul Jendrek*Distinguished Senior Lecturer**Associate professor, chemistry, 1998**B.S., Johns Hopkins University; Ph.D., Tulane University***Steven Z. Kahn***Distinguished Senior Lecturer**Professor, mathematics, 1970**A.B., M.A., Ph.D., George Washington University***Rebecca A. Kajs***Distinguished Senior Lecturer**Professor, English, 1989**B.A., University of North Texas; M.A., Ph.D., Texas Woman's University***Joseph Rea Keech***Distinguished Senior Lecturer**Professor, English, 1977**A.B., Loyola College; M.A., Ph.D., University of South Carolina***Mara Kent-Skruch***Distinguished Senior Lecturer**Professor, sociology, 1993**B.A., M.A., Ph.D., University of Maryland Baltimore County; R.N.***Elizabeth A. Kessel***Distinguished Senior Lecturer**Professor, history, 1988**B.A., University of Maryland; M.A., University of Wisconsin; M.A., West Virginia University; Ph.D., Rice University***Carol F. Keydel***Emeritus, Distinguished Senior Lecturer**Professor, human services, 1972**B.A., M.S.W., University of Michigan; L.C.S.W.-C., Ph.D., University of Maryland***Christopher T. Kilian***Distinguished Senior Lecturer**Professor, engineering technologies, 1973**A.A., Pasadena City College; B.S., M.S., University of California at Los Angeles; P.E.***Frederick A. Klappenberger***Emeritus, Distinguished Senior Lecturer**Professor, computer information systems, 1985**B.S., Loyola College; Ph.D., University of Maryland***Kelly A. Koermer***Distinguished Senior Lecturer**Professor, legal studies institute, 1998**A.A., B.S., Stevenson University (formerly Villa Julie College); J.D., University of Baltimore School of Law***Richard W. Kopka***Distinguished Senior Lecturer**Associate professor, computer information systems, 1991**B.S.E.E., M.S.E.E., University of Pittsburgh***Paul Kreiss***Distinguished Senior Lecturer*

Professor, chemistry, 1982

B.A., Swarthmore College; M.A., University of California Berkeley; Ph.D., University of Georgia

W. Daniel Kuhne

Distinguished Senior Lecturer

Professor, art, 1975

B.A., M.A., University of Maryland

E. Joseph Lamp

Distinguished Senior Lecturer

Professor, communications, 1972

A.A., Anne Arundel Community College; B.A., M.A., University of Maryland; C.A.S., Johns Hopkins University; Ph.D., University of Maryland

Martha L. Links

Emeritus, Distinguished Senior Lecturer

Professor, business administration, 1976

B.A., Bernard College; M.B.A., College of William and Mary; C.P.A.

Darlene Schmidt Mallick

Distinguished Senior Lecturer

Professor, homeland security and Criminal Justice Institute, 1974

B.A., College of Notre Dame of Maryland; J.D., LL.M., University of Baltimore School of Law

Barbara H. Marder

Distinguished Senior Lecturer

Associate professor, performing arts, 1978

B.A., University of Illinois; M.A., George Washington University

Joseph M. McQuighan

Distinguished Senior Lecturer

Associate professor, cybersecurity, networking, and digital forensics, 2004

B.S., University of Notre Dame; M.S., University of Southern California; D.Sc., Towson University; P.M.P.

Javanika H. Mody

Distinguished Senior Lecturer

Professor, biology, 1997

B.S., Gujarat University; B.D.S., Government Dental College of India; M.S., University of Maryland

Richard A. Niewerth

Emeritus, Distinguished Senior Lecturer

Professor, visual arts, 1970

B.F.A., Maryland Institute College of Art; M.A., University of Maryland

Donald P. Orso

Distinguished Senior Lecturer

Professor, psychology, 1973

B.A., Susquehanna University; M.Ed., University of Virginia; Ph.D., American University

Wayne E. Page

Distinguished Senior Lecturer

Associate professor, communications, 1970

B.A., M.A., University of Maryland; C.R.L.T., Russian Language Institute, Syracuse University; M.L.A., Johns Hopkins University

Shirley C. Parry

Emeritus, Distinguished Senior Lecturer

Professor, English and women's studies, 1973

B.A., Colby College; M.A., University of Wisconsin; Ph.D., University of Maryland

Michael D. Ryan

Emeritus, Distinguished Senior Lecturer

Professor, architecture and interior design, 1989

A.A., Anne Arundel Community College; B.S., The Catholic University, M. Arch., The Catholic University

Jean Turner Schreier

Emeritus, Distinguished Senior Lecturer

Professor, English, 1970

B.A., M.A., University of Oklahoma; Ph.D., University of Wisconsin

Richard H. Seabrook

Emeritus, Distinguished Senior Lecturer

Professor, computer technologies, 1982

B.S., M.S., University of Maryland

Gregory J. Segreti

Distinguished Senior Lecturer

Professor, American studies, 1975

B.A., Catholic University of America; M.A., University of Maryland; M.L.A., Johns Hopkins University

Kelly K. Sell

Distinguished Senior Lecturer

Professor, computer technologies, 1999

B.S., University of Maryland College Park; M.Ed., Towson University; MOS 2010 Master

Alicia W. Siegrist

Distinguished Senior Lecturer

Professor, physical science, 2003

B.S., University of Maryland; M.S., Pennsylvania State University

Henry E. Sloss Jr.

Distinguished Senior Lecturer

Associate professor, English, 1989

B.A., University of California at Berkeley; M.A., University of Minnesota

Vivian G. Spencer

Distinguished Senior Lecturer

Professor, English, 1987

B.A., M.A., University of Illinois at Chicago Ph.D., University of Maryland College Park

Stephen F. Steele

Distinguished Senior Lecturer

Professor, sociology and futures studies, 1972

B.A., M.A., Eastern Michigan University; Ph.D., Catholic University of America

Daniel F. Symancyk

Distinguished Senior Lecturer

Professor, mathematics, 1976

B.S., M.A., Ph.D., University of Massachusetts

Carol L. Taylor

Distinguished Senior Lecturer

Associate professor, health and physical education, 1978

B.S., University of Maryland; M.Ed., Towson University

David L. Tengwall

Distinguished Senior Lecturer

Professor, history, 1979

B.A., University of Chattanooga; M.A., Creighton University; Ph.D., University of California

Gary W. Thomas

Distinguished Senior Lecturer

Professor, business management, 1972

B.A., Locoming College; M.Ed., Shippensburg University; Ph.D., University of Maryland

Raymond F. Turner

Emeritus, Distinguished Senior Lecturer

Professor, economics, 1972

B.B. A., M.B.A., University of Cincinnati; M.A., Ph.D., Catholic University of America

Gary L. Van Velsir

Distinguished Senior Lecturer

Professor, mathematics, 1971

B.A., Pomona College; M.A., Ph.D., University of Maryland

Carol B. Veil

Emeritus, Distinguished Senior Lecturer

Professor, biology, 1980

B.A., Gettysburg College; M.S., University of Maryland

Jill Voran

Distinguished Senior Lecturer

Professor, communications, 1974

B.A., Kansas State University; M.A., Purdue University; D.A., Catholic University of America

Rayner C. Wharton

Emeritus, Distinguished Senior Lecturer

Associate professor, sociology, 1987

B.A., University of Maryland Baltimore County; M.S. Towson University

John L. Wisthoff

Emeritus, Distinguished Senior Lecturer

Professor, mathematics, 1965

B.S., Towson University; M.A.T., Harvard University; Ph.D., University of Maryland

Faculty Emeriti

Note: The date following each person's name is the year in which the Board of Trustees awarded their emeritus designation.

M. STEPHEN AILSTOCK, Ph.D., 2021

Professor, biology emeritus

GWEN V. ATWELL, M.S., 1989 (deceased)

Professor, office administration and technology emeritus

JAMES S. ATWELL, D.A., 1992

Vice president and dean, academic affairs emeritus

LOUIS L. AYMARD, Ph.D., 2013

Professor, psychology emeritus

HELEN C. BASIL-BOSWELL, M.S., R.N., 2000

Professor, nursing emeritus

PAUL BEADLE, M.A., 1980 (deceased)
Professor, modern languages emeritus

RICHARD H. BOWERS, M.S.M.R., 1978 (deceased)
Dean, careers emeritus

JAMES F. BREWER, Ph.D., 1982 (deceased)
Professor, history emeritus

LESTER S. BROOKS, Ph.D., 2023
Professor, history emeritus

WILLIAM H. BUFFUM, M.A., 1977 (deceased)
Director, community relations emeritus

ELLEN C. BUNGAY-POSTEN, 2007
Professor, humanities and visual arts emeritus

JOSEPH CALDERON, J.D., 1978 (deceased)
Professor, social science emeritus

THOMAS P. CARPENTER, Ph.D., 1984 (deceased)
Professor, English emeritus

DANIEL S. CHESLEY, Ph.D., 2013
Professor, mathematics emeritus

ALBERT J. CRULL, M.A., 1985 (deceased)
Professor, art emeritus

HAROLD J. COUNIHAN, Ph.D., 1973
Professor, history emeritus

CHARLES S. DAVIS, Ph.D., 1970
Professor, mathematics emeritus

JAMES L. DOLLAR, M.A., 2001 (deceased)
Dean of arts and sciences and professor, philosophy emeritus

HENRY L. DRAGUN, Ph.D., 1997
Professor, science emeritus

ELDRIDGE B. DUFFEE JR., Ph.D., 1993 (deceased)
Professor, political science emeritus

JOHN P. EDWARDS JR., Ph.D., 2000
Professor, mathematics emeritus

C. WAYNE EHLE, M.S., 1969
Professor, mathematics emeritus

LINDA J. EPSTEIN, M.S., R.N., 2002
Professor, nursing emeritus

WILLIAM W. EVANS, M.A., 1977 (deceased)
Dean of the college emeritus

RICHARD L. FAIRCLOTH, Ph.D., 2010
Professor, biology emeritus

THOMAS E. FLORESTANO, Ed.D., 1994 (deceased)
President emeritus

HARRY E. FOSTER, M.S.L.S., 1993 (deceased)
Professor and head librarian emeritus

AJAIPAL S. GILL, Ph.D., 2000
Professor, psychology emeritus

RAJWANT K. GILL, D.A., 2023 (deceased)
Professor, technology emeritus

MARION GLASBY, Ph.D., 2005
Professor, mathematics emeritus

CHERYL A. HACK, Ph.D., 2005
Professor, biology emeritus

NORMA L. HAMILTON, 2010
Professor, nursing emeritus

ALDEN R. HEFLER, Ph.D., 1973 (deceased)
Visiting lecturer emeritus

SALLY G. HORNOR, Ph.D., 1993
Professor, biology emeritus

SYLVIA H. INGRAM, PhD., 2022
Professor, psychology emeritus

RUSSEL E. KACHER, Ph.D., 2000 (deceased)
Professor, English emeritus

ROBERT E. KAUFFMAN, M.A., 2004 (deceased)
Professor, performing arts emeritus

ELIZABETH A. KESSEL, Ph.D., 2012
Professor, history emeritus

CAROL F. KEYDEL, Ph.D., 1999
Professor, human services emeritus

FREDERICK A. KLAPPENBERGER, Ph.D., 2008
Professor, computer information systems emeritus

WILLIAM E. LAMB, M.A.T., 1979 (deceased)
Professor, mathematics emeritus

E. JOSEPH LAMP, Ph.D., 2013
Professor, communications emeritus

MARTHA L. LINKSZ, M.B.A., C.P.A., 2011
Professor, business administration emeritus

ENNO K. LOHRMANN, Ph.D., 1989 (deceased)
Professor, psychology and human services emeritus

JILL A. LOUKIDES, Ph.D., 2004 (deceased)
Professor, biology

ROBERT P. LUDLUM, Ph.D., 1976 (deceased)
President emeritus

DORIS D. MAGUIRE, M.S.L.S., 1982 (deceased)
Professor and assistant librarian emeritus

VERA A. MARTIN, M.S., 1989
Professor, nursing emeritus

ROCCI S. MASTROBERTI, M.S., 1993 (deceased)
Dean, administration emeritus

ELIZABETH A. MATHIAS, Ed.D., 1996
Professor, nursing emeritus

JAVANIKA H. MODY, D.D.S., 2022
Professor, biology emeritus

GEORGE T. MCGUCKIAN, M.S., 1990 (deceased)
Professor, electronic data processing emeritus

BARRETT L. MCKOWN, M.S.S.T., 1994
Professor, biology emeritus

RICHARD A. NIEWERTH, 2010
Professor, visual arts emeritus

DOROTHY L. NOBLE, Ph.D., 1972 (deceased)
Professor, history and political science emeritus

JULIET B. OFFUTT, B.S., 1983 (deceased)
Professor and assistant librarian emerita

DONALD P. ORSO, Ph.D., 2022
Professor, psychology emeritus

JOHN D. PALMER, 1997 (deceased)
Dean of business and professor, business and technical and career education emeritus

SHIRLEY C. PARRY, Ph.D., 2008
Professor, English and women's studies emeritus

JOHN F. PARR, Ph.D., 1977 (deceased)
Dean, liberal arts emeritus

MICHAEL J. PHILP, Ph.D., 2000
Professor, philosophy emeritus

HARRY C. RHODES, Ed.D., 1979
Dean, faculty emeritus

SUE A. RICCIARDI, Ph.D., 2000
Professor, mathematics emeritus

FOLGER M. RIDOUT, M.Ed., 1987 (deceased)
Professor, biology emeritus

ROSALIND T. RIVERA, Ed.D., 1996
Assistant dean, allied health technologies emeritus

MICHAEL D. RYAN, M.Arch., 1989

Professor, architecture and interior design emeritus

LEON F. SAGAN, Ph.D., 1998 (deceased)

Professor, mathematics emeritus

JEAN TURNER SCHREIER, Ph.D., 2008

Dean of arts and sciences and professor, English emeritus

RICHARD H. SEABROOK, M.S., 2011

Professor, computer technologies emeritus

JOHN W. SEAGER, M.S.T., 1973 (deceased)

Associate professor, chemistry emeritus

HAROLD G. SHIRK, Ph.D., 1974 (deceased)

Professor, mathematics emeritus

D. HARRISON SMITH, Ph.D., 1977 (deceased)

Visiting lecturer, history and political science emeritus

STEPHEN F. STEELE

Professor, sociology and future studies emeritus

ETHEL M. STINCHCOMB, Ed.D., 1980 (deceased)

Professor, nursing emeritus

DANIEL F. SYMANCYK

Dean of arts and sciences and professor, mathematics emeritus

DAVID L. TENGWALL, Ph.D., 2022

Professor, history emeritus

BILLY H. THOMPSON, M.Ed., C.A.S., 2000

Professor, law enforcement emeritus

JUDITH F. THOMPSON, M.A., C.A.S., 2001

Professor, English emeritus

DANIEL D. TOWNSEND, Ph.D., 1984

Professor, English emeritus

RAYMOND F. TURNER, M.A., Ph.D., 1973

Professor, economics emeritus

ANDREW G. TRUXAL, Ph.D., L.L.D., 1968 (deceased)

President emeritus

CAROL B. VEIL, 1980

Professor, biology emeritus

JAMES M. WARNOCK, M.A., 1978 (deceased)

Business manager emeritus

JOHN L. WISTHOFF, Ph.D., 2001

Professor, mathematics emeritus

WILLIAM H. YANCEY, M.A., 1978 (deceased)

Dean, admissions and records emeritus

Full-Time Faculty

Note: The date following each person's position is the year in which they began employment at the college.

Frank W. Alduino

Professor, history and political science, 1989

A.A., Brevard Community College; B.S., M.S., Ph.D., Florida State University

Brandi L. Angel

Associate professor, business management, 2012

B.S., University of Maryland; M.A., Johns Hopkins University

Elizabeth H. Appel

Professor and dean, school of health sciences, 1999

B.A., University of Kansas; M.S.W., University of Maryland at Baltimore; L.C.S.W.-C.

Ellen Asbury

Associate professor, nursing, 2016

B.S.N. University of Colorado; M.S.N., University of Maryland

Bradley Austin

Associate professor, geography, 2018

M.S., Shippensburg University of Pennsylvania; Ph.D., Kent State University

Anne M. Bach-Starling

Assistant professor, psychology, 2023

B.A., The University of Akron; M.A., The University of Akron; Ph.D., Grand Canyon University

Mary Bachkosky

Associate professor, legal studies institute, 2017

B.A., University of Maryland; J.D., American University, Washington College of Law

Anthony E. Baker

Assistant professor, entrepreneurial studies, 2018

A.A., Community College of Rhode Island; B.S., New England Institute of Technology; M.B.S., Johnson and Wales University; Ph.D., Walden University

Elizabeth A. Baran

Associate professor and academic chair, engineering, 2007

B.S.M.E., University of Vermont; M.S.M.E., Stanford University

Jason P. Barbour

Professor and academic chair, physical science, 2006

B.S., University of Maryland; M.S., Colorado State University; Ph.D., University of Virginia

Debra M. Bartlett

Professor and academic chair, biology, 2010

A.A., Anne Arundel Community College; B.S., D.C., National University of Health Sciences

Robert E. Beatty

Associate professor and academic chair, business administration, 2016

B.A., M.B.A., Loyola University Maryland, C.P.A.; C.F.E.; C.G.M.A.

Shelly Bentley

Associate professor, education, 2017

B.S., Edinboro University of PA; M.Ed., University of Maryland; E.D., University of Pittsburgh

Lyndele C. Bernard

Professor, nursing, 2001

B.S.N., University of Virginia; M.S., University of Maryland

Anna Binneweg

Professor, performing arts, 2007

B.A., California Polytechnic State University; M.M., Southern Methodist University; D.M., Northwestern University

Jennifer L. Birdsell

Assistant professor, mathematics, 2012

B.A., Eastern University; M.S., Towson University

Kathryn Blood

Assistant professor, nursing, 2023

B.S.N., Salisbury University; M.S., Stevenson University

Margaret A. Boas

Associate professor, English, 2000

B.A., Pomona College; M.A., Arizona State University

Dawn C. Bond

Professor, visual arts, 2005

B.A. in Studio Art, University of Wisconsin-Parkside; M.F.A. in Studio Art/Inter-Related Media; Towson University

Ewell D. Bowers

Professor, English, 2013

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Associate professor and academic chair, massage therapy, 2008

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Associate professor and director of assessment and instructional innovation, 2011

B.S., Towson University; M.Ed., Goucher College; Ed.S., George Washington University; Ed.D., Morgan State University

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Professor, physical science, 2014

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Professor and assistant dean, astronomy, chemistry, physics, and physical science, 2002

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Associate professor, academic literacies, 2016

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Assistant professor, nursing, 2018

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Professor and dean, School of Business and Law, 1999

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Professor, visual arts, 2007

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B.S., Washington College; Certificate, Therapeutic Massage, Anne Arundel Community College; P.T., University of Maryland School of Medicine; B.C.T.M.B., L.M.T.

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Professor, education, 2000

B.A., Michigan State University; M.A., University of Colorado; M.S., Johns Hopkins University; PCC, Professional Certified Coach, International Coach Federation

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B.S., Lehigh University; M.B.A., American University; Sec+

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B.S., M.S., Civil Engineering Institute, Bucharest, Romania; M.S., Boston University; M.S., University of Maryland Baltimore County

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Associate professor, astronomy, 2017

B.S., University of North Carolina at Chapel Hill, M.S., University of Washington, Ph.D., University of California Los Angeles

Johnny Lew

Professor, English, 2013

B.A., Vassar College; Ph.D., Boston University

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B.S., University of Southern California; M.A., University of Maryland, College Park; Ph.D., University of Maryland, College Park

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B.S., Eastern Connecticut State University; M.S., James Madison University

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A.S., Southern Adventist University; B.S.N., University of Phoenix; M.S.N., Southern New Hampshire University

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Professor, architecture and interior design, 2004

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Assistant professor, English, 2015

B.A., Washington College, M.A., University of York, UK

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Professor, psychology, 2014

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Professor, visual arts, 2010

B.A., M.A., University of Virginia; M.F.A., Boston University

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Assistant professor, nursing, 2020

BSN, College of Notre Dame; MSN, Towson University

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Professor, human services, 2014

B.A., Washington College; M.S.W., University of Maryland at Baltimore; L.C.S.W.-C.

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Associate professor and academic chair, world languages, 1999

B.A., University of Dubuque; M.A., University of Wisconsin-Madison

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Associate professor, English, 1994

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Associate professor, mathematics, 2006

B.S., University of Notre Dame; M.S., Florida State University

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Professor, humanities and visual arts, 1996

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Rachelle E. Tannenbaum

Professor, psychology, 2000

B.A., Rutgers University; M.A., University of Maryland Baltimore County; C.A.G.S., Johns Hopkins University; Ph.D., Capella University

Kasia J. Taylor

Professor, cybersecurity, networking, and digital forensics, 2007

B.A., Pennsylvania State University; M.B.A., University of Maryland College Park

Kerry Taylor

Associate professor and assistant dean, English, communications, and academic literacies, 2001

B.A., George Washington University; M.Ed., George Washington University; Ed.D., George Washington University

Rebecca J. Tolley

Associate professor, nursing, 2007

B.A., North Carolina Wesleyan College; M.S.N., University of Phoenix

Robyn A. Toman

Professor, mathematics, 1999

B.A., Roanoke College; M.Ed., University of Maryland College Park

Antione D. Tomlin

Associate professor, academic literacies, 2018

B.S., Stevenson University; M.A., Morgan State University; Ph.D., University of Maryland Baltimore

Lynn J. Tracey

Professor, chemistry, 1996

B.S., University of Maryland; Ph.D., University of Delaware

Sean J. Urbantke

Assistant professor, theatre, 2014

B.F.A., Texas Christian University; M.F.A., University of Maryland College Park

Wilfredo Valladares Lara

Professor and academic chair, visual arts, 2006

B.F.A., Maryland Institute College of Art; M.F.A., University of Maryland

Christine J. Vasica

Associate professor, library, 2018

B.A., Chapman University; M.L.I.S., University of California, Los Angeles

Akash Vasishtha

Instructor, visual arts, 2023

B.S., Union College

Mary Venters

Assistant professor, nursing, 2019

B.S., Charleston Southern University; ADN, Anne Arundel Community College; MSN, Walden University

Mary E. Wallingsford

Associate professor, cybersecurity, networking, and digital forensics, 2012

B.S., University of Maryland; M.S., University of Maryland University College; CCNA

Simon Ward

Assistant professor, English, 2018

M.A., MLitt; University of Glasgow

Ian A. Wardenski

Professor, music, and academic chair, performing arts, 2010

B.A., Notre Dame de Namur University; M.M., Duquesne University; Ph.D., The Catholic University of America

G. Harold Waterman

Professor, computer information systems, 2003

B.A., Wagner College; M.P.A., New York University

Brian Mark Weber

Instructor, English, 2015

B.A., Vermont College of Norwich University; M.A., Washington College; M.A. Norwich University

Kristin Weedn

Assistant professor, nursing, 2019

BSN and MSN, Notre Dame of Maryland University

Benjamin J. Weibell

Professor, biology, 2005

B.S., Brigham Young University; Ph.D., The University of Alabama

Krista Y. White

Associate professor, biology, 2017

B.S., University of North Carolina at Wilmington; Ph.D., Eastern Virginia Medical School

Brandy M. Whitlock

Professor, library, 2005

B.S., Virginia Polytechnic Institute and State University; M.A., Miami University; M.F.A., M.L.I.S., University of Alabama

Nicole R. Williams

Professor and academic chair, human services, 2005

B.A., Bowie State University; M.S., Ph.D., Howard University

John J. Wojcik

Assistant professor, legal studies, 2023

B.A., Indiana University of Pennsylvania; M.S., U.S. Army War College; J.D., Thomas Cooley Law School; D.B.A., Baker College

Ellyn Woodzelle

Assistant professor, nursing, 2015

B.S.N., College of Notre Dame of Maryland; M.S.N., Walden University

Michael F. Wright

Assistant professor, mathematics, 2005

B.A., B.S., M.A., University of Montana

Margaret L. Wyatt

Professor, nursing, 2014

A.D.N., Anne Arundel Community College; B.S.N., University of Notre Dame; M.S.N., Walden University

Briana Zeck

Instructor and chair, histotechnology, 2023

A.A.S., SUNY Cobleskill; B.A., Colgate University; M.S., CUNY Hunter College, HTL

Tuition, Fees and Payments

Tuition per credit hour*

Anne Arundel County Residents	\$125
Other Maryland County Residents	\$293
Out-of-State Residents and International Students	\$425

Tuition reduction*

Some students enrolled in specific programs and/or courses may be eligible for waiver of some tuition charges. Refer to tuition waivers and reductions.

Registration fee per term*	\$25

General student fees*

Athletic	\$3 per credit hour
Educational services	\$22 per credit hour
Student activity	\$3 per credit hour

Individual course fees*

Lab/clinical fees	<i>vary per course</i>
Physical Education fee (per term if enrolled in a PHE course)	\$6

Penalty fees*

Late payment	\$10
Returned check	\$25

Testing fees*

Testing and Assessment Services information can be found at <https://www.aacc.edu/resources/academic-services/testing/>

Credit by exam*

Per credit hour	\$7
plus application fee	\$5

Parking/Traffic Violations*

See fees listed on page: www.aacc.edu/campus-safety/services/traffic-and-parking-regulation/

*Tuition and fees are subject to change without notice. For current rates: www.aacc.edu/costs-and-paying/credit-costs-and-payment/credit-tuition-and-fees/

Course Fees

Payment of Tuition and Fees

For specific payment information on tuition and fees, visit www.aacc.edu/costs-and-paying/credit-costs-and-payment/paying-your-bill/

Fee Explanations

Athletic fee funds athletic facilities, membership on intercollegiate athletic teams and admission to sporting events.

Clinical fees offset the cost of clinical placements and supervision. Request a complete explanation of clinical fee expenditures from the appropriate academic department.

Educational Services fees fund information literacy initiatives and instructional support services including online access to research information, maintenance and upgrade of the library automation system, peer tutoring, online tutoring and open access computer labs.

Lab fees pay for materials and supplies for science experiments, computer supplies, equipment maintenance and special materials. Request a complete explanation of lab fee expenditures from the appropriate academic department.

Late Payment fee is assessed for each tuition and fee payment made after the scheduled due date. Due dates are listed in the class schedule and on the student's bill.

Parking and Traffic Violation fees are charged to all students who violate any of the parking or traffic violations.

Physical Education fees charged to all students enrolled in PHE courses for maintenance of instructional equipment.

Registration fees cover costs of the student identification card and registration.

Returned Check fee is assessed when a student's check is returned from the bank for any reason.

Student Activity fees offset the cost of co-curricular educational, cultural and recreational activities, publications and programs including the campus newspaper, drama performances and speakers.

Financial Aid

It is the philosophy of the college that no qualified student should be restricted from attempting college because of limited financial resources. Grants, scholarships, loans and employment programs are available to eligible students who are enrolled in eligible degree or certificate programs of study. For more information visit Financial Aid & Scholarships.

Third Party Payments

Anne Arundel Community College accepts third party payments for tuition assistance from students' employers, college tuition trust funds, external scholarships or from other organizations or individuals. For students receiving third party assistance (payments), supporting documentation from the sponsoring agency must be sent to the Cashier's office prior to or at the time of registration. If payment or third party documentation is not submitted, registration may be canceled for non-payment. For more information, please contact the Cashier's office at cashiersoffice@aacc.edu. Students are responsible for any charges not covered by third party assistance and are subject to late fines.

In compliance with the Veterans Benefits and Transition Act of 2018 (Title 38 USC 3679(e) Compliance), "the College will not impose any penalty, including the assessment of any late fee, precluding registration or otherwise denying access to classes, libraries or other College facilities, or requiring the student to borrow additional funds, on any student using U.S. Department of Veterans Affairs (VA) Vocational Rehabilitation and Employment (Chapter 31) or Post 9/11 GI Bill (Chapter 33) benefits who has unpaid financial obligations due to any delay in payment or disbursement of funding by the VA."

Educational Tax Credits

The Taxpayer Relief Act of 1997 provides educational tax credit programs. Students should consult with tax professionals regarding the educational tax credits. AACC will send a 1098T Tuition Statement to all students who have paid within the calendar year for qualified tuition and related expenses. More information can be found on the IRS Tax Benefits for Education: Information Center website.

Refunds

Drop/Withdraw with a Refund: When you register for a course, you assume a financial responsibility. Non-payment or failure to attend class does not result in an automatic drop from course(s) or the release of financial responsibility. To be eligible for a refund, you must drop the course through **MyAACC** or submit a drop/add form with the Records and Registration office at records@aacc.edu by the refund deadlines outlined below.

If you stop attending a course but do not officially drop the course, you continue to be financially responsible for all tuition and fees and receive a failing grade.

Courses dropped prior to the refund deadline are eligible for a full refund.

Students are provided a full refund when the college cancels a class.

DROP/WITHDRAW/REFUND DEADLINES <i>Note: The last day upon which courses may be dropped is also listed on the students' MyAACC page under My Classes. After the final drop date, a student may withdraw from a class through the 12th week of the 15th week session. For terms shorter than 15 weeks, the withdraw period will be defined proportionately.</i>	
FOR CLASSES SCHEDULED EIGHT WEEKS OR MORE	FOR CLASSES SCHEDULED SEVEN WEEKS OR FEWER
Students may drop the class for five calendar days after the date of the first scheduled class meeting and receive a full refund.	Students may drop the class for two calendar days after the date of the first scheduled class meeting and receive a full refund. No refunds will be given after that date.
Students have five additional calendar days to withdraw from the class and receive a 60% reduction of the tuition, general student fees and lab fees charged for the class.	For hybrid, hybrid synchronous, online and online synchronous classes, the first day of the session is considered the first scheduled class meeting.
If a student withdraws more than 10 calendar days after the date of the first scheduled class meeting, no refunds will be issued.	
For hybrid, hybrid synchronous, online and online synchronous classes, the first day of the session is considered the first scheduled class meeting.	

Students who are enrolled in noncredit classes, no refund will be given after the first scheduled class meeting.

All students receiving federal student aid should be aware that withdrawing from a class/classes might affect the amount of financial aid they will receive.

Financial Aid Refunds

Students who officially withdraw from a course may jeopardize their financial aid eligibility or have their award reduced but are still responsible for their tuition and fees minus any refunds outlined above.

If your total semester financial aid exceeds the total of your tuition, mandatory fees, bookstore charges and any unpaid balance, the Cashier's office will mail you a refund check within 14 days after your aid payments create a credit balance.

Note that federal regulations require you to cash a federally funded refund check (Title IV funds) within a timely manner, and all refund checks expire 180 days from the issue date of the check.

If you do not cash your refund check within 180 days of the original refund issue date, AACC will cancel the check and the funds will be returned to the loan or grant fund that created the credit balance.

Residency and Tuition Procedures

As authorized by college policy, students at Anne Arundel Community College are charged tuition for credit classes according to their residence as established on the first day of the class session and are classified to be one of the following:

Anne Arundel County Residents - in county

Other Maryland County Residents - out of county

Out-of-State Residents, including students who are not U.S. citizens or permanent U.S. residents not holding an Alien

Registration Receipt card - out of state

Regardless of a student's residency, students must sign by appropriate means, an application and registration form attesting to their residency. At prescribed intervals during a student's enrollment at the college, the students may be asked to verify that their residence is the same as originally obtained or officially changed. If their residence has changed since submitting the written application and/or registration form, students shall notify the Records and Registration Office, in writing, and attest to their new residence. The college reserves the right to request additional information and documentation if necessary.

Legal domicile shall be defined as a person's permanent place of abode, where physical presence and possessions are maintained and where he/she intends to remain indefinitely.

OR

The permanent place of abode of any person or persons contributing more than one-half of the student's financial support during the most recent completed year.

Students shall be considered residents of a county of state if they maintain their legal domicile there and have done so for a period of not less than three months before the starting date of the class session in which the class is scheduled.

When students change residence, they must report the new residence to the registrar within 30 days. Students shall complete a written statement and may be required to provide documentation of the new residence and the date when the change was effective.

Determination of student residency is made by the registrar based on the documents provided. The college shall consider any or all of the following factors in determining residency and may request evidence for substantiation:

Ownership or rental of local living quarters;

Substantially uninterrupted physical presence, including the months when the student is not in attendance at the college;

Maintenance in Maryland and in the county of all, or substantially all, of the student's possessions;

Payment of state and local income taxes on all taxable income-earned;

The student's visa status;

Registration to vote in the state and county;

Registration of a motor vehicle in the state, with a local address specified;

AND

Possession of a valid Maryland driver's license or identification card issued by the Maryland Motor Vehicle Administration.

An individual's immigration status may not preclude award of Maryland residency under this policy if the individual has a legal capacity to establish domicile in Maryland.

Tuition for Maryland Public School Teachers

A Student who is an Anne Arundel County public-school teacher who registers for a course required for employment or a course or program that maintains or improves skills required for employment will be classified as an Anne Arundel County Resident, even if residing outside of Anne Arundel County.

A Student who is a public-school teacher at a school located in Maryland but outside of Anne Arundel County who registers for a course required for employment will be classified as an Other Maryland County Resident, even if residing outside of Maryland.

A Student classified as an Anne Arundel County Resident or Other Maryland County Resident based on being a public-school teacher will maintain the Residency Classification assigned as long as the student remains employed by the public school and is taking a course(s) that is required for employment or maintains or improves skills required for employment.

At the time of registration each semester, students must provide a current **Maryland public-school ID badge** to the Cashier's office at cashiersoffice@aacc.edu. Questions call 410-777-2236.

Tuition for Military Personnel and Their Dependents

In addition to the general requirements above, the following provisions apply to the specific categories of students indicated.

An active duty member of the United States Armed Forces will be in-county for tuition purposes.

The spouse or child of an active duty member of the United States Armed Forces is exempt from being charged the out-of-state tuition differential if the active duty member of the United States Armed Forces is stationed in Maryland, resides in Maryland or is domiciled (residents of record) in Maryland. Such an individual will be considered either the in-county or the out-of-county for tuition purposes based on where he/she resides, as demonstrated by supporting documentation.

The spouse or child of a qualified member of the United States Armed Forces whose domicile or permanent duty station is in Maryland and is continuously enrolled at the college when the permanent duty station is changed to a location outside the state shall be considered out-of-county (in-state) for tuition purposes.

A qualified member of the Maryland National Guard will be considered out-of-county for tuition purposes unless they are a resident of the county. Those members of the Maryland National Guard who are residents of the county will be considered in-county rate.

An honorably discharged veteran of the United States Armed Forces who registers as an entering student at Anne Arundel Community College is exempt from paying out-of-state tuition differential if the veteran presents the registrar with documentation evidencing that the veteran attended a public or private secondary school in Maryland and the veteran graduated from a public or private secondary school in Maryland or received the equivalent of a high school diploma in Maryland. Such an individual will be considered at either the in-county or the out-of-county tuition rate based on where he/she resides, as demonstrated by supporting documentation.

Students who are qualified, honorably discharged United States Armed Forces veterans will be classified as "out-of-county, in-state" residents for tuition purposes even if residing outside the state of Maryland.

Tuition for Dual-Enrolled High School Students (Early College Access Program)

Qualified Maryland Public School students, including Anne Arundel County Public School (AACPS) students, with the submission of an Early College Access Program form, will not be charged for tuition, fees, or required course materials. For more information, please call the admissions office at **410-777-2246**.

Tuition for International Students/Non-U.S. Citizens

For a non-U.S. citizen to be considered a Maryland resident for the purposes of this policy, the student shall possess the legal capacity under state and federal law to establish Maryland domicile. Non-immigrant visa statuses such as B, C, D, F, M, Q, TN, and students with pending status pay out-of-state tuition. Undocumented immigrants who attended high school in Maryland can apply for a special tuition rate equivalent to either the in-county or out-of-county rate through the Maryland Dream Act. In order to qualify for the Maryland Dream Act tuition rate, students must provide documentation that they meet the requirements. To apply, complete the Maryland Dream Act application available at www.aacc.edu/costs-and-paying/credit-costs-and-payment/paying-your-bill/maryland-dream-act/ and submit it to the Admissions Office admissions@aacc.edu. For more information call **410-777-2152** or Espanol **410-777-1999**.

Tuition Waivers and Reductions

Students must apply for waivers or tuition reductions each term before the first day of classes. Direct questions to the Cashier's office at cashiersoffice@aacc.edu.

In compliance with the Code of Maryland Regulations and the Education Article of the Maryland Annotated Code, the Board of Trustees of Anne Arundel Community College authorizes full or partial waivers of tuition for qualifying individuals in the categories listed below.

Maryland Foster Care and Maryland Unaccompanied Homeless Youth Recipients

A Maryland Foster Care and Maryland Unaccompanied Homeless Youth recipient is exempt from paying tuition and mandatory fees if the recipient:

Is enrolled at the institution by the date the recipient reaches the age of 25; and

Continues to be exempt from paying tuition and fees until 10 years after first enrolling and pursuing an associate's degree; or is awarded a bachelor's degree; and

Is enrolled full or part time for an associate, bachelor's, or a vocational certificate at a Maryland public institution of high education; and

Has filed for federal and state financial aid by March 1 each year; and

Meets all other financial aid eligibility criteria.
For more information call financial aid at **410-777-2203**.

Tuition Waivers

Waivers to Tuition Policy supports tuition waivers for the following:

Maryland residents who are age 60 years or older

The college waives tuition charges for credit and eligible continuing education courses for Maryland residents who are age 60 years and older by the first day of the term. All other fees must be paid on or before the due date.

Maryland residents receiving SSI or SSDI

In accordance with Maryland law § 16-106c and the procedures set by the Maryland Higher Education Commission, Anne Arundel Community College waives tuition charges for Maryland residents enrolled in credit and certain qualified noncredit continuing education courses who are certified as retired or disabled by the Social Security Administration.

The waiver is available for tuition charges for up to 6 credits designed to lead to employment, including life skills per semester without declaring a degree or certificate program. The tuition waiver is available for up to 12 credits per semester for students who have declared a degree or certificate program that leads to employment.

Eligibility Requirements

A resident of Maryland who is receiving Supplemental Security Income (SSI) or Social Security Disability Insurance (SSDI) benefits and out of the workforce because of a permanent disability as defined by the Social Security Act, the Railroad Retirement Act, or in the case of former federal employees, the Office of Personnel Management. Individuals receiving SSI or SSDI benefits as a dependent or survivor of a disabled beneficiary do not qualify for this waiver.

In accordance with state regulations, students enrolled in a degree or certificate program who are requesting the Social Security Tuition Waiver must annually file and complete the Free Application for Federal Student Aid (FAFSA) no later than March 1st of the award year. Include AACC school code 0020258.

Prior to the first scheduled day of class, students must provide a current **Benefit Verification Letter** from the Social Security Administration (or Railroad Retirement board or former federal employer) to the Cashiers office at cashiersoffice@aacc.edu. Benefit Verification Letters are valid for one year from the date of the letter.

Fees (not covered under the Social Security Tuition Waiver) and any remaining tuition charges must be paid on or before the due date. Call the Cashiers office at 410-777-2236 to make this payment. Only payment prevents students from being dropped from courses.

Awarded grants and scholarships will be applied first to pay tuition. The waiver will only be applied if grants and scholarships do not cover the full semester tuition charge. Student loans or Federal Work Study funds are not a grant or scholarship and therefore not considered.

Colleges reserve the right to discontinue the tuition waiver for a student enrolling in a course with less than 10 regularly enrolled students.

Members of the Maryland National Guard

Students who are members of the Maryland National Guard are eligible for a waiver of 50 percent of their tuition for credit courses at Anne Arundel Community College. To qualify for this waiver, members of the Maryland National Guard must submit their State Tuition Waiver (STW) Letter signed by their unit commander to the Cashier's office each term. The remaining tuition and fees must be paid on or before the due date. Students must be enrolled in regularly scheduled credit courses with sufficient tuition paying students to warrant the college's offering the classes. Direct questions to the Cashier's office at cashiersoffice@aacc.edu.

Maryland Dream Act

The Maryland Dream Act qualifies certain undocumented immigrants for a tuition rate equivalent to the in-state rate. A complete application requesting approval must be submitted before the start of the term. Application and details are available at www.aacc.edu/costs-and-paying/credit-costs-and-payment/paying-your-bill/maryland-dream-act/.

Tuition Reductions

College policy supports tuition reductions for the following:

Health Workforce Tuition Reduction Program

Maryland residents who by the first day of the term are enrolled in a program of study designated by the state as a Health Manpower Shortage Program may be eligible for in-county tuition rates for courses required for program completion. It is the students' responsibility to confirm that a program is designated as a Health Manpower Shortage Program before applying for a tuition reduction. To apply for this tuition reduction program, students must notify the Cashier's office that they are enrolled in a Health Manpower Shortage Program prior to making their first payment of tuition and fees and when they add a class. Written appeals of eligibility for tuition reduction received by the Accounts Receivable Manager will be determined within 10 days of receipt. Health Manpower Shortage Programs are subject to change. A current listing is available on MHEC's website. For information regarding billing, contact the Cashier's office, at **410-777-2236** or cashiersoffice@aacc.edu. The following AACC programs are designated as Health Manpower Shortage Programs as of July 2023:

Human Services (A.A.S.)	AAS.HUS.HUS
Human Services (certificate)	CRT.HUS.HUS
Massage Therapy (A.A.S.)	AAS.IHE.MASS-THRPY
Massage Therapy (certificate)	CRT.IHE.MASS-THRPY
Medical Assisting (A.A.S.)	AAS.MDA.MDA
Medical Assisting (certificate)	CRT.MDA.MDA
Medical Coding (certificate)	CRT.IHE.MED-CODE
Medical Laboratory Technician (A.A.S.)	AAS.MLT.MLT
Nursing (A.S.)	AS.NUR.RN
Practical Nursing (certificate)	CRT.NUR.PRAC-NRSG
Physical Therapist Assistant (A.A.S.)	AAS.PTA.PTA
Radiologic Technology (A.A.S.)	AAS.RAD.RAD

Health Manpower Shortage Program Tuition Reduction for Nonresident Nursing Students

This program is available to out-of-state residents who are enrolled, have been accepted in an eligible nursing program and are pursuing a program leading to a nursing degree. If your out-of-state residency is due to a foreign status, you do not qualify for this reduction. Students may apply for a reduction of the out-of-state tuition differential for courses required for program completion. In return, students must sign a promissory note stating that upon completion of the nursing program, they will sit for the nursing licensure exam and work for at least two years on a full-time basis in a Maryland hospital or related institution. Health Manpower Shortage Programs are subject to change. A current listing is available on the MHEC website. For information, contact the Financial Aid office at **410-777-2203** or finaid@aacc.edu.

Statewide Tuition Reduction Program

Maryland residents who by the first day of the term are enrolled in a program of study designated by the state as a Statewide Program may be eligible for in-county tuition rates for courses required for program completion. It is the students' responsibility to confirm that a program is designated as a Statewide Program of Study before applying for a tuition reduction. To apply for this tuition reduction program, students must notify the Cashier's office that they are enrolled in a Statewide Program of Study prior to making their first payment of tuition and fees and when they add a class. Written appeals of eligibility for tuition reduction received by the Accounts Receivable Manager will be determined within 10 days of receipt. Statewide Programs are subject to change. A current listing is available on MHEC's website. For information on a specific program, contact the Cashier's office, at **410-777-2236** or cashiersoffice@aacc.edu. The following AACC programs are designated as statewide programs as of July 2023:

Architecture and Interior Design - Interior Design (A.A.S.)	AAS.ACH.ID-INT-DSGN

Homeland Security Management - Homeland Security Management (A.A.S.)	AAS.HLS.HMLD.SEC-MGT
Homeland Security Management - Intelligence Analytics (A.A.S.)	AAS.HLS.INTEL-ANLYS
Homeland Security Management - Transportation and Border Security (A.A.S.)	AAS.HLS.TPT-BDR-SEC
Hotel/Restaurant Management - Culinary Arts (A.A.S.)	AAS.HRM.CULINARY-A
Hotel/Restaurant Management - Baking and Pastry Arts (A.A.S.)	AAS.HRM.BAK-PASTRY
Hotel/Restaurant Management - Hospitality Management (A.A.S.)	AAS.HRM.HOSPITALITY
Paralegal Studies (A.A.S.)	AAS.PARA-STUDIES
Skilled Professional Trades Management (A.A.S.)	AAS.EXPLORE.TRADES
Skilled Professional Trades Management - Small Business Management (A.A.S.)	AAS.TRADES.SM-BUS
Skilled Professional Trades Management - Construction Management (A.A.S.)	AAS.TRADES.CSTN
Baking and Pastry Arts (certificate)	CRT.HRM.BAK-PASTRY
Culinary Arts (certificate)	CRT.HRM.CUL-ART
Event Planning and Catering (certificate)	CRT.HRM.EVT-PLN-CAT
Intelligence Analytics (certificate)	CRT.HLS.INTEL-ANYL
Life and Engagement Coach (certificate)	CRT.EDU.LIFE-ENGAGE
Paralegal Studies (certificate)	CRT.PARA-STUDIES
Transportation, Logistics, and Cargo Security (certificate)	CRT.BMT.TRANSPORT

Workforce Innovation and Opportunity Act (WIOA)

Many of our areas of study provide career enhancement that may meet guidelines set forth by the federal Workforce Innovation and Opportunity Act (WIOA). The Anne Arundel Workforce Development Corporation, Anne Arundel County's WIOA services provider, assists job seekers by delivering career services and workforce training funds. An individual qualifies for short-term workforce training or career development if he or she has been laid off from a job and/or meets WIOA income eligibility guidelines. Determining funding eligibility requires a meeting with an AAWDC staff person prior to course enrollment to establish a training plan. For information, call **410-987-3890** to be directed to an AAWDC location convenient to you. After meeting with an AAWDC staff person, students wishing to inquire about the WIOA-approved AACC areas of study can call the Admissions and Enrollment Development office at **410-777-2246**.

Tuition for Parent of a deaf or hard of hearing child

In compliance with the Code of Maryland Regulations starting October 1, 2019 a parent of a deaf or hard of hearing child may take one course that teaches a language or communication mode at AACC and is exempt from paying tuition at AACC for that course. Eligible individuals must make arrangement with the Cashier's Office prior to the first payment due date.

Course Fees (A)

Courses	Fees
Allied Health	
AHT 280 - Special Topics in Allied Health Technology	\$10-50
AHT 280-299	\$10-50
Architecture	
ACH 100 - Introduction to Interior Design	\$20
ACH 101 - Kitchen and Bath Fundamentals	30
ACH 104 - Interior Finishes and Applications	40
ACH 105 - Textiles and Textile Applications	40
ACH 106 - Interior Design Studio	40
ACH 111 - Graphic Communication 1: Composition and Delineation	40
ACH 112 - Graphic Communication 2: Design and Representation	40
ACH 114 - History of Contemporary Landscape Design	40
ACH 115 - Introduction to Landscape Architecture	20
ACH 116 - Landscape Architecture: System and Design	20
ACH 117 - Landscape Architecture: Plant Identification	25
ACH 121 - Construction Technology 1	40
ACH 122 - Construction Technology 2	40
ACH 202 - Space Planning	20
ACH 203 - Commercial Design Studio	20
ACH 204 - Interior Construction Detailing	20
ACH 205 - Residential Studio	40
ACH 206 - Kitchen and Bath Design	40
ACH 207 - Portfolio and Visual Presentation for Interior Design	40
ACH 209 - Lighting for Interior Design	40

ACH 210 - Advanced Commercial Studio	40
ACH 211 - Architectural Studio 1: Form, Space and Order	40
ACH 212 - Architectural Studio 2: Design and Synthesis	40
ACH 213 - Sustainable Interiors	40
ACH 215 - Interior Design Standards	40
ACH 219 - Construction Contract Administration	30
ACH 226 - Advanced Kitchen and Bath Design	40
ACH 230 - Cost Estimating for Construction	30
ACH 235 - Computer Applications for Kitchen and Bath Design	20
ACH 240 - Construction Documentation	20
ACH 242 - Environmental Systems for Design	20
ACH 245 - Digital Technologies 1	20
ACH 255 - Digital Technologies 2	20
ACH 265 - Digital Studio	20
ACH 213 - Building Information Modeling	20
ACH 271 - Advanced Building Information Modeling	40
ACH 280-299 - Special Topics in Architecture	0-40

Art

ART 100 - Two-Dimensional Design	\$30
ART 102 - Three-Dimensional Design	50
ART 103 - Color	30
ART 106 - Introduction to Digital Design	40
ART 112 - Introduction to Sound Design	35
ART 120 - Digital Photography 1	60
ART 121 - Darkroom Photography 1: Black & White	50
ART 122 - Color Photography	50
ART 125 - Drawing 1	20
ART 131 - Painting 1	45

ART 135 - Sculpture 1: Clay Modeling and Mixed Media	65
ART 137 - Illustration	15
ART 138 - Metal Art Fabrication	75
ART 140 - Watercolor 1	30
ART 142 - Portraiture 1	60
ART 145 - Ceramics 1	55
ART 146 - Ceramics 2	65
ART 148 - Intaglio Printmaking 1	50
ART 149 - Relief Printmaking	50
ART 154 - 3D Computer Graphics	30
ART 155 - 2D Game Prototyping	30
ART 156 - 3D Game Graphics	30
ART 157 - 3D Game Prototyping	30
ART 158 - Game History	30
ART 159 - Game Interface Design	30
ART 160 - Video 1	50
ART 161 - Video Editing	40
ART 166 - Graphic Design 1	40
ART 170 - Web Design 1	25
ART 200 - Drawing 2	30
ART 201 - Drawing 3	30
ART 202 - Life Drawing	50
ART 230 - Art Portfolio Development	20
ART 231 - Photography Portfolio Development	30
ART 232 - Painting 2	60
ART 233 - Painting 3	60
ART 234 - Painting and Abstraction	40
ART 235 - Sculpture 2	65

ART 236 - Digital Photography 2	60
ART 237 - Photojournalism	50
ART 238 - Alternative Photographic Process	60
ART 239 - Techniques of Photographic Lighting	50
ART 240 - Watercolor 2	30
ART 242 - Portraiture 2	60
ART 244 - Materials and Methods of Painting and Drawing	40
ART 245 - Ceramics 3	75
ART 246 - Screen Printing	60
ART 247 - Lithographic Printmaking	50
ART 248 - Intaglio Printmaking 2	50
ART 249 - Metal Casting	95
ART 251 - Animation 1	30
ART 252 - Animation 2	30
ART 255 - Game Development	30
ART 258 - Game Character Design	30
ART 259 - Gaming Practicum	30
ART 260 - Video 2	50
ART 262 - Image & Design	40
ART 264 - Fundamentals of Typography	40
ART 266 - Graphic Design 2	40
ART 268 - User Experience Design for the Web	40
ART 270 - Web Design 2	25
ART 278 - Color Darkroom Practicum	50
ART 280-299 - Special Topics in Art	0- 100
Astronomy	
AST 112 - Stars and Stellar Systems	\$10

Course Fees (B - CH)

Biology	
BIO 100 - Introduction to Biology	\$45
BIO 101 - Foundations of Biology: Molecules and Cells	50
BIO 103 - General Botany	50
BIO 104 - Foundations of Biology: Ecology and Evolution	40
BIO 105 - General Zoology	70
BIO 107 - Environmental Science	20
BIO 112 - Garden Management	30
BIO 113 - Sustainable Horticulture	30
BIO 121 - Indoor Gardening	30
BIO 136 - Principles of Nutrition and Laboratory	30
BIO 201 - Plant Taxonomy	25
BIO 207 - Plant Propagation	30
BIO 210 - Ecological Principles and Environmental Assessment	40
BIO 211 - Estuarine Biology	60
BIO 220 - Genetics with Laboratory	70
BIO 221 - Molecular Biotechniques	70
BIO 223 - General Microbiology	50
BIO 230 - Structure and Function of the Human Body	20
BIO 231 - Human Biology 1	20
BIO 232 - Human Biology 2	20
BIO 233 - Anatomy and Physiology 1	20
BIO 234 - Anatomy and Physiology 2	20
BIO 275 - Biology Practicum	Fees will vary

BIO 280-299 - Special Topics in Biology	Fees will vary
Business Administration	
BPA 129 - Business Travel Studies	Travel fees vary
BPA 280-299 - Special Topics in Business and Management	0-30
Chemistry	
CHE 111 - General Chemistry 1	\$55
CHE 112 - General Chemistry 2	55
CHE 113 - Fundamentals of Organic and Biochemistry	70
CHE 115 - General, Organic and Introduction to Biochemistry	55
CHE 213 - Organic Chemistry 1	70
CHE 214 - Organic Chemistry 2	70
Course Fees (CJ - D)	
Computer Technologies	
CTA 001 - Elementary PC Skills	\$13
CTA 280-299 - Special Topics in Computer Technologies	0-100
CTP 110 - Internet Fundamentals	25
CTP 111 - HTML/CSS Programming	25
CTP 112 - Mobile Web Development	25
CTP 120 - Introduction to WWW Publishing	40
CTP 136 - jQuery	25
CTP 215 - Access Visual Basic Applications (VBA) Programming	25
CTP 227 - Web Server Administration	40
CTP 233 - iPad/iPhone iOS Programming 2	35
CTP 235 - Advanced World Wide Web Server-Side Development	25
CTP 255 - Computer Organization	40

CTP 280-299 - Special Topics in Computer Technologies	5-100
CTS 115 - Operating Systems	35
CTS 215 - Server Administration	50
CTS 220 - UNIX/LINUX Shell Programming	35
CTS 223 - Advanced UNIX/LINUX System Administration	35
CTS 225 - Wireless LANs	50
CTS 231 - Networking 4	100
CTS 232 - CISCO Certified Network Associate (CCNA) Preparation	25
CTS 235 - Windows Server Networking	40
CTS 260 - IP Telephony - Quality of Service (QoS)	100
CTS 265 - CCNP ROUTE: Implementing IP Routing	100
CTS 266 - CCNP SWITCH: Implementing IP Switching	100
CTS 267 - CCNP TSHOOT: Maintaining and Troubleshooting IP Networks	100
CTS 270 - Information Security Management	25
CTS 280-299 - Special Topics in Computer Technologies	5-100

Criminal Justice and Law Enforcement

CJS 127 - Police Tactics 1	\$20
CJS 128 - Police Tactics 2	20
CJS 131 - Fundamentals of Private Investigation	15
CJS 170 - Digital Forensics 1	60
CJS 207 - Digital Forensics 2	60
CJS 222 - Investigation and Criminalistics	20
CJS 250 - Introduction to Forensic Science	20
CJS 280-299 - Special Topics in Law Enforcement	0-30

Dance

DAN 192 - Applied Dance: Ballet	\$350
DAN 193 - Applied Dance: Improvisation	350
DAN 194 - Applied Dance: Jazz	350

DAN 195 - Applied Dance: Modern	350
DAN 196 - Applied Dance: Pointe	350
DAN 197 - Applied Dance: Tap	350

Dental Hygiene

DHY 102 - Dental Hygiene Clinical 1 lab	\$250
DHY 102 - Dental Hygiene Clinical 1 clinical	100
DHY 106 - Dental Anatomy and Tooth Morphology	2,500
DHY 108 - Dental Hygiene Radiology	250
DHY 112 - Dental Hygiene Clinical 2 lab	350
DHY 112 - Dental Hygiene Clinical 2 clinical	100
DHY 116 - Dental Materials and Procedures lab	250
DHY 124 - Dental Hygiene Clinical 3 Pain Management lab	350
DHY 124 - Dental Hygiene Clinical 3 Pain Management clinical	100
DHY 202 - Dental Hygiene Clinical 4 lab	350
DHY 202 - Dental Hygiene Clinical 4 clinical	100
DHY 222 - Dental Hygiene Clinical 5 lab	350
DHY 222 - Dental Hygiene Clinical 5 clinical	100
DHY 224 - Dental Hygiene Public Health lab	250
DHY 224 - Dental Hygiene Public Health clinical	100
DHY 280-299 - Special Topics in Dental Hygiene	0- 2,500

Course Fees (E - G)

Economics

ECO 233 - Data, Sampling, and Analytics	\$35
ECO 270 - Data and Analysis Project Seminar	35
ECO 280-299 - Special Topics in Economics	0-30

Education

EDU 111 - Foundations of Education clinical	\$85
EDU 132 - Introduction to Early Childhood Development clinical	85
EDU 133 - Growth and Development clinical	85
EDU 211 - Educational Psychology clinical	85
EDU 247 - Early Childhood: Methods and Materials clinical	85

Electronic Engineering Technology

EET 109 - Circuit Assembly Techniques	\$40
EET 130 - Introduction to Electronic Circuits	25
EET 141 - Telecommunications Wiring Laboratory	30
EET 150 - Semiconductors and Linear Circuits	25
EET 231 - Digital-Electronic Circuits	25
EET 250 - Microprocessors and Microcontrollers	50
EET 255 - Metrology and Calibration	30
EET 260 - Electronic Communication Systems	25
EET 265 - Electronics Technician Capstone	50
EET 280-299 - Special Topics in Electronic Engineering Technology	14-21

Emergency Medical Services

EMS 101 - Introduction to Advanced EMS Practice lab	\$200
EMS 111 - Paramedic 1 lab	200
EMS 111 - Paramedic 1 clinical	100
EMS 121 - Paramedic 2 lab	200
EMS 121 - Paramedic 2 clinical	100
EMS 131 - Paramedic 3 lab	200
EMS 131 - Paramedic 3 clinical	150
EMS 141 - Paramedic 4 lab	200
EMS 141 - Paramedic 4 clinical	150
EMS 251 - Paramedic 5 lab	350
EMS 251 - Paramedic 5 clinical	200

EMS 271 - Paramedic Capstone lab	300
EMS 271 - Paramedic Capstone clinical	350

Emergency Medical Technician

EMT 100 - Uh Oh! What do I do?	\$50
EMT 104 - Emergency Medical Care, CPR & AED	60
EMT 105 - Emergency Medical Technician (EMT)	200
EMT 115 - Introduction to Paramedic	100
EMT 116 - Emergency Medical Technician 1	125
EMT 117 - Emergency Medical Technician 2 lab	150
EMT 117 - Emergency Medical Technician 2 clinical	100
EMT 118 - Paramedic 1 lab	350
EMT 118 - Paramedic 1 clinical	100
EMT 119 - Paramedic 2 lab	350
EMT 119 - Paramedic 2 clinical	100
EMT 215 - Paramedic 3	250
EMT 270 - Paramedic Capstone lab	300
EMT 270 - Paramedic Capstone clinical	100
EMT 280-299 - Special Topics: Emergency Medical Technology	0-200

Engineering

EGR 120 - Introduction to Engineering Design	\$30
EGR 235 - Circuit Theory	25
EGR 244 - Digital Logic Design	25
EGR 280-299 - Special Topics in Engineering	Fees will vary

Engineering Technologies

ENT 260 - Solid Modeling with SolidWorks	\$35
ENT 261 - Rapid Prototyping Techniques	50
ENT 280-299 - Special Topics in Engineering Technologies	5-21

Entrepreneurial Studies

ESI 103 - Introduction to Entrepreneurship	\$16
ESI 270 - Entrepreneurship: New Venture Planning	25

Course Fees (H - L)

Health	
HEA 100 - Assessment and Theory of Fitness and Health	\$30
HEA 100 - Assessment and Theory of Fitness and Health physical education fee	6
HEA 150 - Advanced First Aid, CPR and AED	35
HEA 230 - Personal Trainer Fundamentals	15
HEA 295 - Care and Prevention of Athletic Injuries	15
History	
HIS 221 - The Battles of Gettysburg and Antietam	\$30
HIS 231 - The Holocaust	40
HIS 280-299 - Special Topics in History	Fees will vary
Histotechnology	
HTC 100 - Introduction to Histology Safety and Techniques	\$215
HTC 101 - Basic Histotechnology	244
HTC 201 - Advanced Histotechnology	270
HTC 202 - Histotechnology Laboratory Clinical 1	127
HTC 203 - Histotechnology Laboratory Clinical 2	127
Homeland Security Management	
HLS 211 - Intelligence Analysis and Security Management	\$20
HLS 213 - Transportation and Border Security	20
HLS 220 - Intelligence and U.S. National Security	20
HLS 225 - Introduction to Intelligence Analytics	20
HLS 230 - Intelligence Support to the Policy Maker and Military	20
HLS 245 - Intelligence Analytics Seminar	20

Hotel/Restaurant Management	
HRM 121 - Introduction to Cooking	\$225
HRM 123 - Cooking Techniques 1	250
HRM 124 - Introduction to Baking and Pastry	145
HRM 190 - Food Science and Nutritional Cooking	175
HRM 201 - Intermediate Bread Production	150
HRM 202 - Intermediate Cake Production	240
HRM 203 - Intermediate Pastry Production	220
HRM 205 - Cooking Techniques 2	290
HRM 220 - Garde Manger	290
HRM 223 - International Cuisine	275
HRM 225 - Restaurant Production and Simulation	350
HRM 226 - Advanced Pastry Production	175
HRM 227 - Chocolates, Confections, and Entremet	195
HRM 251 - Restaurant Management	50
HRM 260 - Purchasing and Cost Controls	100
HRM 280-299 - Special Topics in Hotel /Restaurant Management	0-1,020

Human Services	
HUS 115 - Fieldwork: Counseling, Assessment and Case Management	\$15

Course Fees (M - PA)

Massage Therapy	
MAS 110 - Fundamentals of Massage Therapy	\$60
MAS 111 - Intermediate Massage Therapy	60
MAS 119 - Massage and Bodywork Specialized Modalities	25
MAS 120 - Massage Therapy Clinic 1	20
MAS 213 - Advanced Massage Therapy	60
MAS 119 - Massage and Bodywork Specialized Modalities	25

MAS 220 - Massage Therapy Clinic 2	20
MAS 280-299 - Special Topics in Massage Therapy	0-100
Mathematics	
MAT 005 - Arithmetic	\$25
MAT 034 - Quantitative Foundations	25
MAT 281-299 - Special Topics in Mathematics	0-30
Mechatronics	
MEC 110 - Mechanical Systems	\$30
MEC 120 - Pneumatics and Hydraulics	30
MEC 130 - Programmable Logic Controllers	30
MEC 140 - Introduction to Robotics	100
MEC 230 - Electric Motor Fundamentals	30
MEC 266 - Mechatronic Systems Capstone	30
Medical Assisting	
MDA 118 - Intravenous Therapy	\$50
MDA 119 - Electrocardiography and Cardiac Diagnostics	60
MDA 140 - Clinical Medical Assisting 1	100
MDA 142 - Clinical Medical Assisting 2	125
MDA 280-299 - Special Topics in Medical Assisting	0-125
Medical Coding	
MDC 101 - Introduction to Medical Coding	\$150
MDC 275 - Medical Coding Practicum	120
Medical Laboratory Technician	
MLT 100 - Introduction to the Medical Laboratory	\$170
MLT 101 - Urinalysis and Body Fluids	170
MLT 103 - Entry Level Clinical Laboratory Testing	125
MLT 125 - Phlebotomy	100
MLT 202 - Clinical Microbiology	235

MLT 203 - Clinical Chemistry	285
MLT 204 - Clinical Immunology/Immunohematology	235
MLT 205 - Clinical Hematology	285
MLT 274 - Medical Laboratory Assistant Practicum clinical	120
MLT 275 - Phlebotomy Practicum lab	120
MLT 276 - Clinical Hematology Practicum clinical	60
MLT 277 - Clinical Chemistry Practicum clinical	60
MLT 278 - Clinical Microbiology Practicum clinical	60
MLT 279 - Clinical Immunohematology Practicum clinical	60
MLT 280-299 - Special Topics in Medical Laboratory Technician	0-180

Music

MUS 113 - Music Theory and Ear Training 1	\$3
MUS 114 - Music Theory and Ear Training 2	3
MUS 141 - Class Piano 1	3
MUS 142 - Class Piano 2	3
MUS 180 - Orchestra	5
MUS 181 - Jazz Band	5
MUS 182 - Concert Choir	5
MUS 184 - Concert Band	5
MUS 188 - Chamber Singers	5
MUS 192 (193-212, 215-222)	350
MUS 192B (193-212, 215-222)	250
MUS 213 - Music Theory and Ear Training 3	3
MUS 214 - Music Theory and Ear Training 4	3

Nursing

NUR 120 - Foundations for Nursing lab	\$425
NUR 120 - Foundations for Nursing clinical	450
NUR 130 - Nursing of Adult Clients in Health and Illness 1 lab	250

NUR 130 - Nursing of Adult Clients in Health and Illness 1 clinical	250
NUR 131 - Maternal, Newborn Nursing and Women's Health lab	250
NUR 131 - Maternal, Newborn Nursing and Women's Health clinical	250
NUR 180 - LPN, Paramedic or Veteran to RN Transition lab	50
NUR 180 - LPN, Paramedic or Veteran to RN Transition clinical	100
NUR 220 - Nursing of Adult Clients in Health and Illness 2 lab	250
NUR 220 - Nursing of Adult Clients in Health and Illness 2 clinical	250
NUR 221 - Nursing Care of Children and Families lab	250
NUR 221 - Nursing Care of Children and Families clinical	250
NUR 230 - Nursing Management of Clients with Complex Health Problems and Transition into Nursing lab	450
NUR 230 - Nursing Management of Clients with Complex Health Problems and Transition into Nursing clinical	450
NUR 280-299 - Special Topics in Nursing lab	0-400

Paralegal Studies

LGS 111 - Introduction to Paralegal Studies	\$12
LGS 112 - Law Office Practice and Technology	27
LGS 138 - International Law and Human Rights	10
LGS 141 - Electronic Legal Research	37
LGS 143 - Legal Research and Writing 1	12
LGS 144 - Legal Research and Writing 2	47
LGS 160 - Domestic Relations	12
LGS 170 - Civil Procedure	12
LGS 171 - Tort Law	12
LGS 210 - Legal Ethics	12
LGS 218 - Introduction to Immigration Law	5
LGS 225 - Environmental Law and Policy	5
LGS 230 - Employment Law	12
LGS 235 - Estates and Trusts	12

LGS 236 - Intellectual Property Law	10
LGS 240 - Health Care Law	10
LGS 241 - Legal Issues of Death, Dying and Organ Transplantation	5
LGS 260 - Bankruptcy Law	10
LGS 270 - Gender and the Law	10
LGS 275 - Paralegal Internship	12
LGS 280-299 - Special Topics in Paralegal Studies	0-30

Course Fees (PH - R)

Physical Education

PHE Physical Education Fee	\$6
PHE 215 - Cardio Fitness	10
PHE 222 - Cardiovascular Kickboxing	6
PHE 233 - Weight Training	15
PHE 236 - Golf 1	50
PHE 266 - High Intensity Interval Training	10
PHE 267 - Basketball	10
PHE 280 – Kettlebells	15

Physical Science

PHS 100 - General Physical Science	\$30
PHS 113 - Physical Geology	30
PHS 119 - Fundamentals of Weather	30
PHS 200 - Earth and Space Science	30
PHS 215 - Introduction to Soil Science	40

Physical Therapist Assistant

PTA 101 - Introduction to Physical Therapist Assistant lab	\$100
PTA 102 - Physical Therapist Assistant 1 lab	300
PTA 104 - Physical Therapist Assistant 2 lab	300

PTA 105 - Clinical Practice 1	25
PTA 106 - Kinesiology lab	100
PTA 150 - Functional Anatomy for the Physical Therapist Assistant lab	25
PTA 201 - Physical Therapist Assistant 3 lab	100
PTA 202 - Physical Therapist Assistant 4 lab	100
PTA 203 - Clinical Practice 2 clinical	135
PTA 204 - Physical Therapist Assistant 5 lab	100
PTA 206 - Clinical Practice 3 clinical	135
PTA 207 - Clinical Practice 4 clinical	135
PTA 280-299 - Special Topics in Physical Therapist Assistant lab	0-94

Physics

PHY 111 - Fundamentals of Physics 1	\$10
PHY 112 - Fundamentals of Physics 2	10
PHY 211 - General Physics 1	25
PHY 212 - General Physics 2	10
PHY 213 - General Physics 3	10
PHY 280-299 - Special Topics in Physics	0-40

Practical Nursing

LPN 180 - Fundamentals of Practical Nursing lab	\$400
LPN 180 - Fundamentals of Practical Nursing clinical	300
LPN 193 - Adult and Child Health Concepts in Practical Nursing lab	300
LPN 193 - Adult and Child Health Concepts in Practical Nursing clinical	275
LPN 194 - Women, Newborns, Mental Health and Integration of Concepts in Practical Nursing lab	350
LPN 194 - Women, Newborns, Mental Health and Integration of Concepts in Practical Nursing clinical	275

Radiologic Technology

RAD 111 - Radiographic Procedures 1: Positioning and Patient Care lab	\$250
RAD 112 - Clinical Radiography 1 clinical	175
RAD 212 - Clinical Radiography 3 clinical	175

RAD 121 - Radiographic Procedures 2 lab	250
RAD 122 - Clinical Radiography 2 clinical	175
RAD 231 - Radiographic Procedures 4 lab	250
RAD 232 - Clinical Radiography 4 clinical	175
RAD 250 - Radiation Biology, Protection, and Safety lab	250
RAD 252 - Clinical Radiography 5 clinical	175
RAD 280-299 - Special Topics in Radiologic Technology lab	0-50

Course Fees (S - Z)

Surgical Technology

SGT 100 - Principles of Surgical Technology 1	\$60
SGT 102 - Principles of Surgical Technology 2 lab	500
SGT 201 - Surgical Technology Clinical	200
SGT 205 - Surgical Technology Clinical 2 lab	300
SGT 205 - Surgical Technology Clinical 2 clinical	150
SGT 206 - Surgical Technology Clinical 3 lab	300
SGT 206 - Surgical Technology Clinical 3 clinical	150

Theater Arts

THA 121 - Stagecraft	\$60
THA 132 - Acting 1	15
THA 133 - Acting 2	15
THA 134 - Acting 3	15
THA 135 - Applied Theater	250
THA 240 - Stage Makeup for Live Entertainment	100
THA 280-299 - Special Topics in Theater	5-250

Uncrewed Aerial Systems

UAS 111 - Introduction to Drone Technology	\$20

Military and Veteran Education

For more information on Military and Veteran Education, visit www.aacc.edu/military/.

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