

Student ID: \_\_\_\_\_

Student Name: \_\_\_\_\_

Advisor Name: \_\_\_\_\_

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**Catalog:** 2022-2023 CATALOG

**Program Name:** Planner for Explore  
Engineering & Math

# PLANNER FOR EXPLORE ENGINEERING & MATH

**TOTAL CREDIT HOURS:** 60

**PURPOSE:** The courses on this planner are designed to lead students to a major listed. The listed majors may prepare for career entry or for transfer to 4-year colleges. Students who are interested in a 'Career Entry Major' but intend to transfer to a four-year college must consult with Academic Advising and may need to follow a transfer agreement (see Transfer Services.)

**CODE:** AA.TRANSFER.EGR-MAT

## Career Entry Majors (A.A.S)

- Mechatronics Engineering Technology
- Electronics Engineering Technology

## Transfer Majors (A.S. and A.S.E.)

- Engineering Transfer
- Electrical Engineering
- Mathematics

## TERM 1

COURSE NAME	CREDITS	TERM TAKEN	GRADE
<b>ENGLISH</b> Choose one (1) English course from the following: <ul style="list-style-type: none"><li>• ENG-101 - Academic Writing and Research 1</li><li>• ENG-101A - Academic Writing and Research 1</li></ul>	3 Credit Hours		
<b>MATHEMATICS</b> Choose one (1) Mathematics course from the following: <i>Notes: Only students interested in Mechatronics Technology or Electronics Technology may take MAT-145. All other students must take MAT-191.</i> <ul style="list-style-type: none"><li>• MAT-145 - Precalculus 1</li><li>• MAT-191 - Calculus and Analytic Geometry 1</li></ul>	4 Credit Hours		

COURSE NAME	CREDITS	TERM TAKEN	GRADE
<b>COMMUNICATION</b> <p><b>Choose one (1) Communications course from the following:</b></p> <ul style="list-style-type: none"> <li>• COM-110 - Introduction to Interpersonal Communication</li> <li>• COM-111 - Fundamentals of Oral Communication</li> <li>• COM-116 - Fundamentals of Oral Communication for Non-Native Speakers</li> <li>• COM-141 - Group Communication and Leadership</li> </ul>	3 Credit Hours		
<b>SOCIAL &amp; BEHAVIORAL</b> <p><b>Choose one (1) Social &amp; Behavioral Sciences GER course</b></p> <p><b>Note: The following are recommended courses that also meet the diversity requirement.</b></p> <ul style="list-style-type: none"> <li>• AFA-101 - Introduction to African American Studies (crosslisted also as: AMS 101)</li> <li>• AFA-214 - African American History (crosslisted also as: HIS 214)</li> <li>• AMS-102 - Introduction to Masculinity Studies (crosslisted also as: GSS/SOC 102)</li> <li>• GSS-101 - Introduction to Women's Studies</li> <li>• HUS-150 - Introduction to Aging Studies (crosslisted also as: SOC 150)</li> <li>• SOC-111 - Introduction to Sociology</li> </ul>	3 Credit Hours		
<b>EXPLORE</b> <p><b>Choose one (1) EXPLORE course from the following:</b></p> <p><b>Note: Each explore course will meet a requirement only in the major(s) listed next to it.</b></p> <ul style="list-style-type: none"> <li>• CHE-111 - General Chemistry 1 (Engineering Transfer and Electrical Engineering)</li> <li>• PHY-211 - General Physics (all majors)</li> <li>• ECO-211 - Principles of Economics 1 (Mathematics)</li> <li>• MEC-110 - Mechanical Components and Electric Motors (Mechatronics Technology, Electronics Technology)</li> <li>• ENT-260 - Solid Modeling with SolidWorks (Mechatronics Technology)</li> <li>• EET-118 - Electronic Hardware and Assembly Techniques (Mechatronics Technology, Electronics Technology)</li> <li>• EET-130 - Introduction to Electronic Circuits (Mechatronics Technology, Electronics Technology)</li> <li>• EGR-120 - Introduction to Engineering Design (Engineering, Electrical Engineering)</li> </ul>	3-4 Credit Hours		

## TERMS 2-4

Below are the 43-44 credit hours of course requirements that should be met during Terms 2-4.

**Students must meet with an Academic Advisor before choosing any of these classes:**

3 credits of English General Education Requirement ENG-102 - Academic Writing and Research 2 (Applies to all majors except Engineering and Electrical Engineering), 3 credits of Wellness General Education Requirement, 3 credits of Social & Behavioral Science GER (other than SOC), 6-7 credits of Biological & Physical Sciences GER (including one lab), 6 credits of Arts & Humanities GER (two different disciplines), 12 credits from a single discipline, and electives. (Students must take the amount of elective credits to achieve a minimum of 60 credits that are required for this degree.)

### RECOMMENDED COURSES:

- MAT-192 - Calculus and Analytic Geometry 2 (Applies only to Engineering Transfer, Electrical Engineering, and Mathematics majors)
- PHY-212 - General Physics 2 (Applies to all majors)
- EGR-209 - Statics (Applies only to Engineering Transfer and Mathematics majors)
- EGR-205 - Intermediate Programming for Engineers (Applies only to Engineering Transfer and Electrical Engineering majors)
- EET-150 - Semiconductors and Linear Circuits (Applies only to Electronics and Mechatronics majors)
- MEC-120 - Pneumatics and Hydraulics (Applies only to Electronics and Mechatronics majors)

Or any Explore course from the list in Term 1