



| <b>DEGREE SHEET / 2020-2021 CATALOG</b>   |                 |              |
|---|-----------------|--------------|
| Student name:   |                 |              |
| Eagle ID:   |                 |              |
| Eagle Email:  |                 |              |
| Phone:  |                 |              |
| <p><b>ASSOCIATE OF ENGINEERING (AEng)<br/>PRE-ENGINEERING</b></p> <p>The curriculum for the Associate of Engineering Pre-engineering (AEng PreE) will prepare students for a bachelor's degree in engineering. Students will obtain a general background in mathematics and the physical sciences, and will be introduced to the concepts and methods of engineering. This program is not a professional degree and does not prepare students for specific job opportunities. It does, however, provide a broad educational background on which to build a career in engineering through additional education or work experience.</p> |                 |              |
| <b>GENERAL EDUCATION REQUIREMENTS (32 Credits)</b>  | <b>SEMESTER</b> | <b>GRADE</b> |
| <b>AREA I: COMMUNICATIONS (6 Credits)</b>   |                 |              |
| ENGL 1110 Composition I (3)<br><i>Pre-requisites: ENG 109 or adequate score on the Course Placement Evaluation</i>  |                 |              |
| ENGL 1210 Technical Communications (3)<br><i>Pre-requisite: ENGL 1110</i>   |                 |              |
| <b>AREA II: MATHEMATICS (4 Credits)</b>   |                 |              |
| ENGR 121L and ENGR 122L Introduction to Math for Engineering Applications I and II (2 credits each for engineering majors)<br><i>Pre-Requisite: Math 1215</i>   |                 |              |
| <b>AREA III: LABORATORY SCIENCES (4 Credits)</b><br><i>You must select one science course with a lab</i>  |                 |              |
| ENGR 101/L Computer Science for All (4)   |                 |              |
| <b>AREA IV: SOCIAL/BEHAVIORAL SCIENCES (3 Credits)</b><br><i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation<br/>You must select one Area IV course.</i>  |                 |              |
| Area IV Course (3)  |                 |              |
| <b>AREA V: HUMANITIES (3 Credits)</b><br><i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation<br/>You must select one Area V course.</i>  |                 |              |
| Area V Course (3)   |                 |              |

|  |             |  |
|--|-------------|--|
| <b>AREA VI: FINE ARTS (3 Credits)</b><br><i>You must select one Area VI course</i>   |             |  |
| Area VI Course (3)   |             |  |
| <b>ADDITIONAL NINE CREDIT HOURS (9 Credits)</b>  |             |  |
| COMM 1130 Public Speaking (3)<br><i>Pre-requisite: ENG 109</i>   |             |  |
| <b>Choose one of the following Civics Courses (3)</b>  |             |  |
| POLS 1100 Introduction to Political Science (3)<br>POLS 1120 American National Government (3)<br>CJUS 1110 Introduction to Criminal Justice (3)<br>HIST 1110 United States History I (3)<br>HIST 1120 United States History II (3) |             |  |
| <b>Choose one of the following STEMH recommended Courses (3)</b>   |             |  |
| ENVS 2130 Critical Thinking in Science (3)<br>PSYC 2120 Developmental Psychology (3)   |             |  |
| <b>SUPPORT COURSES (16 Credits)</b>  |             |  |
| MATH 1510 Calculus I (4)<br><i>Pre-requisites: MATH 1250 or adequate score on the Course Placement Evaluation</i>  |             |  |
| MATH 1520 Calculus II (4)<br><i>Pre-requisites: MATH 1510</i>  |             |  |
| ENGR 215 Physics for Engineers I (2)<br><i>Pre-requisites: ENGR 121</i>  |             |  |
| ENGR 216L Physics for Engineers II (3)<br><i>Pre-requisites: ENGR 215</i>  |             |  |
| ENGR 217L Physics for Engineers III (3)<br><i>Pre-requisites: ENGR 215</i>   |             |  |
| <b>PROGRAM REQUIREMENTS (12 Credits)</b>   |             |  |
| ENGR 110L Introduction to Engineering (3)<br><i>Pre-requisite: None</i>  |             |  |
| DRFT 100 Computer Aided Drafting I (4)<br><i>Pre-requisite: None</i>   |             |  |
| MET 201 Applied Mechanics I (3)<br><i>Pre-requisite: ENGR 215</i>  |             |  |
| EET 200/L Electrical Systems I with Lab (2)<br><i>Pre-requisite: ENGR 217L</i>   |             |  |
| <b>TOTAL CREDITS 60</b>  |             |  |
| <b>ADVISOR APPROVAL</b>  | <b>DATE</b> |  |

## SUGGESTED SEQUENCE OF COURSES

### **FIRST SEMESTER (15 Credits)**

|          |      |   |
|----------|------|---|
| ENGR     | 121L | Introductory Mathematics for Engineering Applications I (2) |
| ENGR     | 215  | Physics for Engineers I (2)                                 |
| DRFT     | 100  | Computer Aided Drafting I (4)                               |
| ENGR     | 110  | Introduction to Engineering (3)                             |
| Elective |      | Laboratory Sciences (4)                                     |

### **SECOND SEMESTER (17 Credits)**

|          |      |  |
|----------|------|--|
| ENGR     | 122L | Introductory Mathematics for Engineering Applications II (2) |
| MET      | 201  | Applied Mechanics I (3)                                      |
| ENGL     | 1110 | Composition I (3)  |
| Elective |      | Social/Behavioral Sciences (3)                               |
| Elective |      | Fine Arts (3)  |
| Elective |      | Additional 9 Credit Hours (3)                                |

### **THIRD SEMESTER (16 Credits)**

|          |      |                               |
|----------|------|-------------------------------|
| MATH     | 1510 | Calculus I (4)                |
| ENGR     | 216L | Physics for Engineers II (3)  |
| ENGR     | 217L | Physics for Engineers III (3) |
| Elective |      | Humanities (3)                |
| ENGL     | 1210 | Technical Communications (3)  |

### **FOURTH SEMESTER (12 Credits)**

|          |       |                               |
|----------|-------|-------------------------------|
| MATH     | 1520  | Calculus II (4)               |
| COMM     | 1130  | Public Speaking (3)           |
| EET      | 200/L | Electrical Systems I (2)      |
| Elective |       | Additional 9 Credit Hours (3) |

# EDUCATIONAL PLANNING FORM (Semester)

| FALL SEMESTER | SPRING SEMESTER | SUMMER      |
|---------------|-----------------|-------------|
|               |                 |             |
| Total Units   | Total Units     | Total Units |
| FALL SEMESTER | SPRING SEMESTER | SUMMER      |
|               |                 |             |
| Total Units   | Total Units     | Total Units |
| FALL SEMESTER | SPRING SEMESTER | SUMMER      |
|               |                 |             |
| Total Units   | Total Units     | Total Units |
| FALL SEMESTER | SPRING SEMESTER | SUMMER      |
|               |                 |             |
| Total Units   | Total Units     | Total Units |