



## DEGREE SHEET / 2019-2020 CATALOG

Student name:

Eagle ID:

Eagle Email:

Phone:

### ASSOCIATE OF ENGINEERING (AEng) PRE-ENGINEERING

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.

GENERAL EDUCATION REQUIREMENTS (32 Credits)	SEMESTER	GRADE
<b>AREA I: COMMUNICATIONS (6 Credits)</b>		
ENGL 1110 Composition I (3) <i>Pre-requisites: ENG 109 or adequate score on the Course Placement Evaluation</i>		
ENGL 1210 Technical Communications (3) <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) <i>Pre-Requisite: Math 1215</i>		
<b>AREA III: LABORATORY SCIENCES (4 Credits)</b> <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> <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i> <i>You must select one Area IV course.</i>		
Area IV Course (3)		
<b>AREA V: HUMANITIES (3 Credits)</b> <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i> <i>You must select one Area V course.</i>		
Area V Course (3)		

<b>AREA VI: FINE ARTS (3 Credits)</b> <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) <i>Pre-requisite: ENG 109</i>		
<b>Choose one of the following Civics Courses (3)</b>		
POLS 1100 Introduction to Political Science (3) POLS 1120 American National Government (3) CJUS 1110 Introduction to Criminal Justice (3) HIST 1110 United States History I (3) 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) PSYC 2120 Developmental Psychology (3)		
<b>SUPPORT COURSES (16 Credits)</b>		
MATH 1510 Calculus I (4) <i>Pre-requisites: MATH 1250 or adequate score on the Course Placement Evaluation</i>		
MATH 1520 Calculus II (4) <i>Pre-requisites: MATH 1510</i>		
ENGR 215 Physics for Engineers I (2) <i>Pre-requisites: ENGR 121</i>		
ENGR 216L Physics for Engineers II (3) <i>Pre-requisites: ENGR 215</i>		
ENGR 217L Physics for Engineers III (3) <i>Pre-requisites: ENGR 215</i>		
<b>PROGRAM REQUIREMENTS (12 Credits)</b>		
ENGR 110L Introduction to Engineering (3) <i>Pre-requisite: None</i>		
DRFT 100 Computer Aided Drafting I (4) <i>Pre-requisite: None</i>		
MET 201 Applied Mechanics I (3) <i>Pre-requisite: ENGR 215</i>		
EET 200/L Electrical Systems I with Lab (2) <i>Pre-requisite: ENGR 217L</i>		
Lower or Upper Division Engineering or Technical Elective (1)		
<del>Elective (1)</del>		
<b>TOTAL CREDITS 60</b>		
<b>ADVISOR APPROVAL</b>	<b>DATE</b>	

## SUGGESTED SEQUENCE OF COURSES

### **FIRST SEMESTER (14 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 (13 Credits)**

MATH	1520	Calculus II (4)
COMM	1130	Public Speaking (3)
EET	200/L	Electrical Systems I (2)
Elective		Additional 9 Credit Hours (3)
<del>Elective</del>		<del>Lower Division Engineering or Technical Elective (1)</del>

# 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
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