



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
AREA I: COMMUNICATIONS (6 Credits)		
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>		
AREA II: MATHEMATICS (4 Credits)		
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>		
AREA III: LABORATORY SCIENCES (4 Credits) <i>You must select one science course with a lab</i>		
ENGR 101/L Computer Science for All (4)		
AREA IV: SOCIAL/BEHAVIORAL SCIENCES (3 Credits) <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)		
AREA V: HUMANITIES (3 Credits) <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)		
AREA VI: FINE ARTS (3 Credits) <i>You must select one Area VI course</i>		

Area VI Course (3)		
ADDITIONAL NINE CREDIT HOURS (9 Credits)		
COMM 1130 Public Speaking (3) <i>Pre-requisite: ENG 109</i>		
Choose one of the following Civics Courses (3)		
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)		
Choose one of the following STEMH recommended Courses (3)		
ENVS 2130 Critical Thinking in Science (3) PSYC 2120 Developmental Psychology (3)		
SUPPORT COURSES (16 Credits)		
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>		
PROGRAM REQUIREMENTS (12 Credits)		
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>		
TOTAL CREDITS 60		
ADVISOR APPROVAL	DATE	

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
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