



DEGREE SHEET / 2016-2017 CATALOG

Student Name:

Eagle ID:

Eagle Email:

Phone:

ASSOCIATE of ENGINEERING in PRE-ENGINEERING

This program will prepare you for a bachelor's degree in engineering. You 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 you for specific job opportunities. It does, however, provide a broad educational background on which to build a career through additional education or work experience.

GENERAL EDUCATION REQUIREMENTS (30 Credits)	SEMESTER	GRADE
AREA I: COMMUNICATIONS (9 Credits)		
ENG 111 English Composition I (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
ENG 116 Technical Writing (3) <i>Pre-requisite: ENG 111</i>		
SPCH 130 Public Speaking (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
AREA II: MATHEMATICS (4 Credits)		
ENGR 121L Introductory Math for Engineering Applications I (2) <i>Pre-requisite: MATH 150 or adequate score on the Course Placement Evaluation</i>		
ENGR 122L Introductory Math for Engineering Applications II (2) <i>Pre-requisite: ENGR 121L</i>		
AREA III: LABORATORY SCIENCE (8 Credits)		
ENGR 215 Physics for Engineers I (2) <i>Pre-requisite: ENGR 121L</i>		
ENGR 216L Physics for Engineers II (3) <i>Pre-requisite: ENGR 122L</i>		
ENGR 217L Physics for Engineers III (3) <i>Pre-requisite: ENGR 122L</i>		
AREA IV: SOCIAL/BEHAVIORAL SCIENCES (3 Credits) <i>Students must complete a minimum of 15 credit hours spread between areas IV and V.</i> Select one class from the following list:		
ECON 201 Microeconomics (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		

OR		
ECON 200 Macroeconomics (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
AREA V: HUMANITIES AND FINE ARTS (3 Credits) <i>Students must complete a minimum of 15 credit hours spread between areas IV and V.</i>		
Elective (3) You must select courses from the approved list in the Catalog for GenEd		
AREA VI: FIRST YEAR EXPERIENCE (3 Credits)		
FYE 101 First Year Experience (3) <i>Pre-requisite: None</i>		
SUPPORT COURSES (8 Credits)		
MATH 162E Calculus I (4) <i>Pre-requisite: MATH 155</i>		
MATH 163E Calculus II (4) <i>Pre-requisite: MATH 162E</i>		
PROGRAM REQUIREMENTS (22 Credits)		
Engineering (22 Credits)		
ENGR 110L Introduction to Engineering (2) <i>Pre-requisite: None</i>		
EECE 152L Computer Programming I (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 Electrical Systems I (2) <i>Pre-requisite: ENGR 217L</i>		
EET 200L Electrical Systems I (2) <i>Pre-requisite: ENGR 217L</i>		
EET 201 Digital Systems (2) <i>Pre-requisite: ENGR 121L</i>		
EET 201L Digital Systems (2) <i>Pre-requisite: ENGR 121L</i>		
Lower Division Engineering or Technical Elective (6)		
TOTAL CREDITS 60		
ADVISOR APPROVAL	DATE	

SUGGESTED SEQUENCE OF COURSES

FIRST SEMESTER (16 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 (2)
Lower Division		Engineering or Technical Elective (3)
FYE	101	Freshman Year Experience (3)

SECOND SEMESTER (14 Credits)

ENGR	122L	Introductory Mathematics for Engineering Applications II (2)
MET	201	Applied Mechanics I (3)
EECE	152L	Computer Programming I (3)
ENG	111	English Composition I (3)
Lower Division		Engineering or Technical Elective (3)

THIRD SEMESTER (16 Credits)

MATH	162E	Calculus I (4)
ENGR	216L	Physics for Engineers II (3)
ENGR	217L	Physics for Engineers III (3)
HFA		Elective (3)
ENG	116	Technical Writing (3)

FOURTH SEMESTER (14 Credits)

MATH	163E	Calculus II (4)
ECON	201/200	Microeconomics or Macroeconomics (3)
SPCH	130	Public Speaking (3)
EET	200	Electrical Systems I (2)
EET	200L	Electrical Systems I (2)
EET	201	Digital Systems (2)
EET	201L	Digital Systems (2)

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
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