



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 (38)	COMPLETED	Planned Timeline (By Semester)
<u>Area I Communications (9)</u>		
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>	_____	_____
<u>Areas II Mathematics (12)</u>		
ENGR 120L Introductory Mathematics for Engineering Applications (4) <i>Pre-requisite: MATH 150 or adequate score on the Course Placement Evaluation</i>	_____	_____
MATH 162E Calculus I (4) <i>Pre-requisites: MATH 150 and MATH 155</i>	_____	_____
MATH 163E Calculus II (4) <i>Pre-requisite: MATH 162</i>	_____	_____
<u>Area III Laboratory Science (8)</u>		
PHYS 215/L Engineering Physics I with lab (4) <i>Pre-requisite: ENGR 120 OR MATH 155; Co-requisite: PHYS 215L</i>	_____	_____
Select one class from the following list:		
PHYS 216/L Engineering Physics II with lab (4) <i>Pre-requisite: PHYS 215/L</i>	_____	_____
OR		
CHEM 121/L General Chemistry I with Lab (4) <i>Pre-requisite: MATH 130, high school chemistry, or an ACT score of 19 or higher in Natural Science, and ENG 111</i>	_____	_____
OR		
Other Science Class with the approval of the advisor (4)	_____	_____
<u>Area IV Social/Behavioral Sciences (3)</u>		
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>	_____	_____
<u>Area V Humanities and Fine Arts (3)</u>		
Elective (3)	_____	_____
You must select courses from the approved list in the Catalog for GenEd		
<u>Area VI First Year Experience (3)</u>		
FYE 100 First Year Experience (3) <i>Pre-requisite: None</i>	_____	_____

PROGRAM REQUIREMENTS (22)

Engineering (22)

ENGR 110L Introduction to Engineering (2)

Pre-requisite: None

EECE 152L Computer Programming I (3)

Pre-requisite: None

DRFT 100 Computer Aided Drafting I (4)

Pre-requisite: None

MET 201 Applied Mechanics I (3)

Pre-requisite: ENGR 120L or adequate score on the Course Placement Evaluation

EET 200/L Electrical Systems I with Lab (4)

Pre-requisite: ENGR 120L

Lower Division Engineering or Technical Elective (6)

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

TOTAL CREDITS 60

SUGGESTED SEQUENCE OF COURSES

FIRST SEMESTER (16 crs)

ENGR 120 Introductory Mathematics for Engineering Applications (4)

DRFT 100 Computer Aided Drafting I (4)

ENGR 110 Introduction to Engineering (2)

Lower Division Engineering or Technical Elective (3)

FYE 100 First year Experience (3)

SECOND SEMESTER (15 crs)

EECE 152L Computer Programming I (3)

ENG 111 English Composition I (3)

Lower Division Engineering or Technical Elective (3)

HFA Elective (3)

ECON 201/200 Microeconomics or Macroeconomics (3)

THIRD SEMESTER (15 crs)

MATH 162E Calculus I (4)

PHYS 215/L Engineering Physics I with Lab (4)

SPCH 130 Public Speaking (3)

EET 200 Electrical Systems I (3)

EET 200L Electrical Systems I Lab (1)

FOURTH SEMESTER (14 crs)

Science/Lab Elective (4)

MATH 163E Calculus II (4)

MET 201 Applied Mechanics I (3)

ENG 116 Technical Writing (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

Advisor's Signature _____

Student Signature _____