



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 (30)	COMPLETED	Planned Timeline (By Semester)
Area I Communications (9)		
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>	_____	_____
Areas II Mathematics (4)		
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)		
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)		
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)		
Elective (3)	_____	_____
You must select courses from the approved list in the Catalog for GenEd		
Area VI First Year Experience (3)		
FYE 101 Freshman Year Experience (3) <i>Pre-requisite: None</i>	_____	_____
SUPPORT COURSES (8)		
MATH 162E Calculus I (4) <i>Pre-requisites: MATH 150 and MATH 155</i>	_____	_____
MATH 163E Calculus II (4) <i>Pre-requisite: MATH 162E</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 215

EET 200L Electrical Systems I (2)

Pre-requisite: ENGR 217L

EET 201L Digital Systems (2)

Pre-requisite: ENGR 121L

Lower Division Engineering or Technical Elective (6)

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

TOTAL CREDITS 60

SUGGESTED SEQUENCE OF COURSES

FIRST SEMESTER (16 crs)

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 100 Freshman Year Experience (3)

SECOND SEMESTER (14 crs)

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 crs)

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 crs)

MATH 163E Calculus II (4)

ECON 201/200 Microeconomics or Macroeconomics (3)

SPCH 130 Public Speaking (3)

EET 200L Electrical Systems I (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
Total Units	Total Units	Total Units

Advisor's Signature _____

Student Signature _____