



Associate in 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.

Failure to maintain an overall GPA of at least a 2.00 in all coursework is sufficient cause for being dropped from the program.

GENERAL EDUCATION (38)	COMPLETED	Planned Timeline (By Semester)
<u>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>Mathematics (11)</u>		
MATH 145 Introduction to Probability & Statistics (3) <i>Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation</i>	_____	_____
MATH 162 Calculus I (4) <i>Pre-requisites: MATH 150 and MATH 155 or MATH 160</i>	_____	_____
MATH 163 Calculus II (4) <i>Pre-requisite: MATH 162</i>	_____	_____
<u>Laboratory Science (12)</u>		
CHEM 121/L General Chemistry I/L (4) <i>Pre-requisite: MATH 130, high school chemistry, or an ACT score of 19 or higher in Natural Science</i>	_____	_____
PHYS 215/L Engineering Physics I with lab (4) <i>Pre-requisite: MATH 162</i>	_____	_____
PHYS 216/L Engineering Physics II with lab (4) <i>Pre-requisite: PHYS 215/L</i>	_____	_____
<u>Social/Behavioral Sciences (3)</u>		
ECON 201 Microeconomics (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
<u>Humanities and Fine Arts (3)</u>		
PHIL 220 Ethics (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
HEALTH, PHYSICAL EDUCATION & RECREATION (1)		
Electives (1) _____	_____	_____
PROGRAM REQUIREMENTS (26)		
<u>Business (3)</u>		
BA Lower division elective (3) _____	_____	_____
<u>Engineering (24)</u>		
ME 160L General Engineering Design I (3) <i>Pre-requisite: MATH 160 or adequate score on the Course Placement Evaluation</i>	_____	_____
ME 202 Engineering Statics (3) <i>Pre-requisite: PHYS 215/L and MATH 163 or adequate score on the Course Placement Evaluation</i>	_____	_____
ME 260L Engineering Design II (3) <i>Pre-requisite: ME 160L and MATH 162 or adequate score on the Course Placement Evaluation</i>	_____	_____

EECE 203	Circuit Analysis I (4)	_____	_____
<i>Pre-requisite: MATH 163 and PHYS 216/L</i>			
EECE 152L	Computer Programming I (4)	_____	_____
EECE 231	Intermediate Programming I (3)	_____	_____
<i>Pre-requisite: EECE 152L</i>			
EECE 238L	Computer Logic Design (4)	_____	_____
<i>Pre-requisite: MATH 130 and PHYS 216L</i>			

TOTAL CREDITS 66

SUGGESTED SEQUENCE OF COURSES

FIRST SEMESTER (17 crs)

ENG 111	English Composition I (3)
MATH 162	Calculus I (4)
MATH 145	Introduction to Probability and Statistics (3)
ECON 201	Microeconomics (3)
CHEM 121/L	General Chemistry I (4)

SECOND SEMESTER (15 crs)

ENG 116	Technical Writing (3)
MATH 162	Calculus II (4)
PHYS 215/L	Engineering Physics I with Lab (4)
ME 160L	Gen. Eng. Design I (3)
HPER	Elective (1)

THIRD SEMESTER (17 crs)

SPCH 130	Public Speaking (3)
PHYS 216/L	Engineering Physics II with Lab (4)
ME 260L	Engineering Design II (3)
EECE 152L	Computer Programming I (4)
BA	Elective (3)

FOURTH SEMESTER (14 crs)

EECE 238L	Computer Logic Design (4)
EECE 203L	Circuit Analysis I (4)
PHIL 220	Ethics (3)
ME 202	Engineering Statics (3)
EECE 231	Intermediate Programming I (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 _____