



Associate in Engineering (AEng) Pre - Engineering

The curriculum in the Associate Degree in Pre-Engineering (AEng) is designed for those who intend to 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 crs)

Area I Communications (9 crs)

ENG	111	English Composition I (3)
ENG	116	Technical Writing (3)
SPCH	130	Public Speaking (3)

Area II Mathematics (11 crs)

MATH	145	Introduction to Probability and Statistics (3)
MATH	162	Calculus I (4)
MATH	163	Calculus II (4)

Area III Laboratory Sciences (12 crs)

CHEM	121/L	General Chemistry I (4)
PHYS	215/L	Engineering Physics I with Lab (4)
PHYS	216/L	Engineering Physics II with Lab (4)

Area IV Social/Behavioral Sciences (3 crs)

ECON	201	Microeconomics (3)
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Area V Humanities (3 crs)

PHIL	220	Ethics (3)
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HEALTH, PHYSICAL EDUCATION & RECREATION (1 cr)

Elective (1)

PROGRAM REQUIREMENTS (26 crs)

Business (3 crs)

Elective in ENGR 4XX or BA (3)

Engineering (12 crs)

ME	160L	Gen. Eng. Design I (3)
ME	202	Engineering Statics (3)
ME	260L	Engineering Design II (3)
EECE	203L	Circuit Analysis I (3)

Support Technologies (11 crs)

CS	152/L	Computer Programming I (4)
CS	251	Intermediate Programming (3)
CS	238/L	Computer Logic Design (4)

TOTAL CREDITS 65

Associate of Engineering Pre-Engineering 12/8/2008 3 hours Elective 12 hours EECE203L Circuit Analysis I 3 MATH 163, PHYS216 11 hours CS 238L

**Major Total 26 Grand Total 65
Associates in Eng. Pre-engineering**

General Education	Course	Title	Hrs	Pre-req
Communications				
9 hours				
	ENG 111	English Composition	3	ENG 109
	ENG 116	Technical Writing	3	ENG 111
	SPCH 130	Public Speaking	3	ENG 109
Humanities				
3 hours				
	PHIL 220	Ethics	3	ENG 109
Mathematics				
11 hours				
	MATH 145	Introduction to Prob/Statistics	3	
	MATH 162	Calculus I	4	MATH 160 or (MATH 150 and 155)
	MATH 163	Calculus II	4	MATH 162
Lab Science				
12 hours				
	CHEM121/L	General Chemistry I	4	
	PHYS215/L	Engr. Physics I with Lab	4	MATH 162
	PHYS216/L	Engr. Physics II with Lab	4	PHYS 215/L
Soc/Behavioral Sci				
3 hours				
	ECON 201	Microeconomics	3	ENG 109
GenEd HRS			38	
Health, PE, Rec				
1 hours	Elective		1	
PHYS Ed			1	
MAJOR				
Business				
ENGR 4XX or BA			3	
Engineering				
	ME160L	Gen Eng. Design I	3	MATH 160
	ME260L	Engineering Design II	3	ME160L, MATH162
	ME202	Engineering Statics	3	PHYS215, MATH 163
Support Technology				
	CS152L	Computer Programming I	4	
	CS251	Intermediate Programming	3	CS152L
		Computer Logic Design		4PHYS 216L and MATH 163

Associate of Eng. Program in Pre - Engineering

1	2	3	4
English Composition I (Eng 109N or Exam)	Technical Writing	Public Speaking (Eng 109N)	Computer Logic Design
Intro. Prob and Statis. (Math 130)	Eng Physics I with Lab	Eng Physics II with Lab	Circuit Analysis I
	Gen Eng Design I (MATH 160)	Eng Design II	Eng Statics
Calculus I (Math (150 and 155) or 160)	Calculus II	Comp Program I	Ethics (Eng 109N)
Gen Chem with Lab	HPR Electives	Elective ENGR/BA	Intermediate Programming
Microeconomics (Eng 109N)			

Notes and Remedials

Math 130	Intermediate Algebra
Math 150	College Algebra
Math 155	Trigonometry
Math 160	Calculus I
Math 162	Calculus II
Eng 109N	Basic English II

Educational Planning Form (Semester)

Name _____ Date _____
Major _____ Student ID _____

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 _____