

ASSOCIATE OF SCIENCE IN PRE-ENGINEERING

Course	Title	Credits
Writing, Speaking, Physical Education and First Year Experience Competencies: 11-13 credits		
ENGLISH 1130 or ENGLISH 1040	College Writing I Studio College Writing I	3-4
ENGLISH 1230	College Writing II	3
SPEECH 1010	Oral Communication for Professionals	2
HHP 1000 or HHP 1650	Fitness Assessment and Management Fitness for Life	1-2
HHP Activity Course		1
UWPSTUDY 1010	Introduction to College Life	1
Foreign Language Requirement: 0-4 credits ¹		0-4
Humanities and Fine Arts Requirement: 9 credits		
Humanities		3
Fine Arts		3
Historical Perspective		3
Social Sciences: 6 credits		
Social Science		3
Social Science		3
International Education/Ethnic Studies/Gender Studies: 3-9 credits		3-9
Pre-Engineering Core Courses: 21-27 credits		
CHEMSTRY 1150 & CHEMSTRY 1240 or CHEMSTRY 1450	General Chemistry I with Math Development and General Chemistry II Chemistry for Engineers	5-9
MATH 2650 or MATH 2640	Calculus I Calculus and Analytic Geometry I	4-5
MATH 2750 or MATH 2740	Calculus II Calculus and Analytic Geometry II	4-5
PHYSICS 2240	General Physics I	4
GENENG 1030	Introduction to Engineering Projects	1
GENENG 2130	Engineering Mechanics-Statics	3
Pre-Engineering Electives: Minimum 6 credits. Choose from the table below. Pre-Engineering Core plus Electives must total at least 32 credits and a minimum 2.0 gpa. ²		6-12
Total Credits ³		62-74

¹ May be satisfied with 1 year High School language with a C or better average or 1-2 semesters college level language (4 credits total).

² Electives are required to reach the 62 credit minimum required for degree completion.

³ All courses may not be available at all campuses and/or in all formats.

TABLE OF ALLOWED PRE-ENGINEERING ELECTIVES

Choose a minimum of 6 credits from the table below. Pre-Engineering Core + Electives must total at least 32 credits.

Course	Title	Credits
GENENG 1320	Engineering Computer Graphics ^{1,2,4,5,6}	2
GENENG 2030	Engineering Modeling and Design ^{1,6}	3
GENENG 2230	Engineering Mechanics-Dynamics ¹	3
GENENG 2340	Mechanics of Materials ^{1,2,4,5,6}	4
GENENG 2820	Engineering Economy ^{1,2,3,4,5}	2
GENENG 2930	Applications of Electrical Engineering ¹	3
ELECTENG 1210	Circuit Modeling I ^{3,6}	3
COMPUTER 1430	Programming in C++ ^{3,6}	3
GEOLOGY 1140	Physical Geology ²	4

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- 1 This elective is useful for students considering Mechanical Engineering.
- 2 This elective is useful for students considering Civil Engineering.
- 3 This elective is useful for students considering Electrical Engineering.
- 4 This elective is useful for students considering Industrial Engineering.
- 5 This elective is useful for students considering Environmental Engineering.
- 6 This elective is useful for students considering Engineering Physics.