

# ASSOCIATE OF SCIENCE IN PRE-ENGINEERING

Course	Title	Credits
<b>Writing, Speaking, Physical Education and First Year Experience Competencies: 11-13 credits</b>		
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
<b>Foreign Language Requirement: 0-4 credits <sup>1</sup></b>		<b>0-4</b>
<b>Humanities and Fine Arts Requirement: 9 credits</b>		
Humanities		3
Fine Arts		3
Historical Perspective		3
<b>Social Sciences: 6 credits</b>		
Social Science		3
Social Science		3
<b>International Education/Ethnic Studies/Gender Studies: 3-9 credits</b>		<b>3-9</b>
<b>Pre-Engineering Core Courses: 21-27 credits</b>		
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
<b>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. <sup>2</sup></b>		<b>6-12</b>
<b>Total Credits <sup>3</sup></b>		<b>62-74</b>

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

<sup>2</sup> Electives are required to reach the 62 credit minimum required for degree completion.

<sup>3</sup> 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 <sup>1,2,4,5,6</sup>	2
GENENG 2030	Engineering Modeling and Design <sup>1,6</sup>	3
GENENG 2230	Engineering Mechanics-Dynamics <sup>1</sup>	3
GENENG 2340	Mechanics of Materials <sup>1,2,4,5,6</sup>	4
GENENG 2820	Engineering Economy <sup>1,2,3,4,5</sup>	2
GENENG 2930	Applications of Electrical Engineering <sup>1</sup>	3
ELECTENG 1210	Circuit Modeling I <sup>3,6</sup>	3

COMPUTER 1430	Introduction to Computer Programming <sup>3,6</sup>	3
GEOLOGY 1140	Physical Geology <sup>2</sup>	4

- 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.