

Program Requirements:

"Program Requirements" specify the courses required for this program. See suggested course sequence for additional information.

**A major of 32 units is required for the degree.
Required core courses (17 units):**

COURSE	TITLE	UNITS
<input type="checkbox"/> CHEM 150	General Chemistry 1	5
<input type="checkbox"/> MATH 182	Calculus 2	4
<input type="checkbox"/> PHYS 161	Engineering Physics 1	4
<input type="checkbox"/> PHYS 162	Engineering Physics 2	4
	or	
<input type="checkbox"/> PHYS 163	Engineering Physics 3	4

<input type="checkbox"/> ENGR 124	Excel for Science and Engineering	1
<input type="checkbox"/> ENGR 126	MATLAB for Science and Engineering	1

Category A - Engineering: Select a minimum of 6 units from Category A and 9 units from selected from Category A and/or Category B.

COURSE	TITLE	UNITS
<input type="checkbox"/> ENGR 152	Statics	3
<input type="checkbox"/> ENGR 154	Dynamics	3
<input type="checkbox"/> ENGR 156	Strength of Materials	4
<input type="checkbox"/> ENGR 161	Materials Science	3
	and	
<input type="checkbox"/> ENGR 162	Materials Science Lab	1
<input type="checkbox"/> ENGR 170	Electric Circuit Analysis	3
	and	
<input type="checkbox"/> ENGR 171	Electric Circuit Lab	1

Category B - Engineering Support

COURSE	TITLE	UNITS
<input type="checkbox"/> CHEM 151	General Chemistry 2	5
<input type="checkbox"/> CS 111	Fundamentals of Programming 1	4
<input type="checkbox"/> ET 140	Engineering Drawing	3
<input type="checkbox"/> ET 145	Advanced Engineering Drawing	3
<input type="checkbox"/> MATH 183	Multivariable Calculus	4
<input type="checkbox"/> MATH 184	Linear Algebra/Differential Equations	5
<input type="checkbox"/> PHYS 162	Engineering Physics 2	4
	or	
<input type="checkbox"/> PHYS 163	Engineering Physics 3	4

Recommended electives:

COURSE	TITLE	UNITS
<input type="checkbox"/> ENGR 100	Introduction to Engineering	1

Suggested Course Sequence

The "Suggested Course Sequence" is an example of how to complete the requirements plus any additional general education that may be needed. If you would like to create a personalized Student Education Plan (SEP), schedule a meeting with a counselor.

This suggested plan assumes a student is eligible for MATH 181, CHEM 150 and PHYS 161.

FALL SEMESTER (YEAR 1)

Course	Title	Units
<input type="checkbox"/> ENGL 101	Freshman Composition: Exposition	4
<input type="checkbox"/> ENGR 100	Introduction to Engineering	1
<input type="checkbox"/> CHEM 150	General Chemistry 1	5
<input type="checkbox"/> MATH 181	Calculus 1	4
Total Units		14

Tasks:

- Complete Career Exploration
- Meet with Counselor (SEP)
- Visit library & tutoring
- Review Financial Aid Requirements
- Apply AHC Scholarship

SPRING SEMESTER (YEAR 1)

Course	Title	Units
<input type="checkbox"/> MATH 182	Calculus 2	4
<input type="checkbox"/> PHYS 161	Engineering Physics 1	4
<input type="checkbox"/> CS 111	Fundamentals of Programming 1 OR	4
<input type="checkbox"/> CHEM 151	General Chemistry 2	5
Total Units		12+

Tasks:

- Set up Jobspeaker
- Attend Career Exploration Day
- FAFSA or Dream Act due March 2
- Apply AHC Scholarship

SUMMER SEMESTER (YEAR 2)

Course	Title	Units
<input type="checkbox"/> AHC GE REQ	Category 2B: American History or Government	3
<input type="checkbox"/> AHC Grad Req	Dance or Physical Activity	.5-3
<input type="checkbox"/> AHC GE REQ	Category 3: Humanities	3
Total Units		7

FALL SEMESTER (YEAR 2)

Course	Title	Units
<input type="checkbox"/> PHYS 163	Engineering Physics 3 OR	4
<input type="checkbox"/> MATH 183	Multivariable Calculus OR	4
<input type="checkbox"/> MATH 184	Linear Algebra/Differential Equations	5
<input type="checkbox"/> ENGR 152	Statics OR	3
<input type="checkbox"/> ENGR 161	Materials Science AND	3
<input type="checkbox"/> ENGR 162	Materials Science Lab	1
<input type="checkbox"/> AHC GE REQ	Category 2A: Social Sciences	3
<input type="checkbox"/> AHC Grad Req	Multicultural and Gender Studies	3
Total Units		13+

Tasks:

- Meet with a Transfer Counselor
- Develop Resume at Career Center
- Review Financial Aid Requirements
- Apply for AHC Scholarship

SPRING SEMESTER (YEAR 2)

Course	Title	Units
<input type="checkbox"/> PHYS 162	Engineering Physics 2 OR	4
<input type="checkbox"/> MATH 183	Multivariable Calculus	4

	OR	
<input type="checkbox"/> MATH 184	Linear Algebra/Differential Equations	5
<input type="checkbox"/> AHC GE REQ	Category 1: Natural Science	3-4
<input type="checkbox"/> ENGR 154	Dynamics	3
	OR	
<input type="checkbox"/> ENGR 170	Electric Circuit Analysis	3
	AND	
<input type="checkbox"/> ENGR 171	Electric Circuit Lab	1
	OR	
<input type="checkbox"/> ENGR 156	Strength of Materials	4
<input type="checkbox"/> HED 100	Health and Wellness	3
Total Units		13+

Tasks:

- Apply for Degree with Counseling
- Utilize Job Search Resources
- Complete FAFSA or Dream Act by March 2
- Attend Job Fair/Career Exploration Day