

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

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

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"/> MATH 181	Calculus 1	4
<input type="checkbox"/> IGETC/AHC GE	US History Government	3

Total Units 12

Tasks:

- Complete Career Exploration
- Meet with Counselor (SEP)
- Visit library & tutoring
- Get involved with STEM
- Review Financial Aid Req.
- Apply AHC Scholarship
- Apply for MESA/STEM
- Engage w/STEM Tutors

SPRING SEMESTER (YEAR 1)

Course	Title	Units
<input type="checkbox"/> CHEM 150	General Chemistry 1	5
<input type="checkbox"/> MATH 182	Calculus 2	4
<input type="checkbox"/> PHYS 110	Introductory Physics	3

Total Units 12

Tasks:

- Meet with a STEM Counselor
- Set up Jobspeaker
- Attend Career Exploration Day
- Apply for STEM Internships
- Apply for STEM Scholarships
- Engage w/STEM Tutors
- Complete the FAFSA or Dream Act by March 2
- Apply AHC Scholarship
- Attend a Transfer Workshop
- Get involved with STEM

SUMMER SEMESTER (YEAR 2)

Course	Title	Units
<input type="checkbox"/> ENGL 103	Critical Thinking and Composition	3
<input type="checkbox"/> IGETC/AHC GE	Social Science	3

Total Units 6

Tasks

FALL SEMESTER (YEAR 2)

Course	Title	Units
<input type="checkbox"/> CHEM 151	General Chemistry 2	5
<input type="checkbox"/> MATH 183	Multivariable Calculus	4

<input type="checkbox"/> PHYS 161	Engineering Physics 1	4
<input type="checkbox"/> AHC Grad Req	Dance or Physical Activity	.5-3

Total Units 14

Tasks:

- Meet with a STEM Counselor
- Review Financial Aid Requirements
- Engage w/STEM Tutors
- Apply for AHC Scholarship
- Get involved with STEM

SPRING SEMESTER (YEAR 2)

Course	Title	Units
<input type="checkbox"/> ENGR 126	MATLAB for Science and Engineering	1
<input type="checkbox"/> MATH 184	Linear Algebra/Differential Equations	5
<input type="checkbox"/> PHYS 162	Engineering Physics 2	4
<input type="checkbox"/> CS 111	Fundamentals of Programming 1	4

Total Units 14

Tasks:

- Complete FAFSA or Dream Act by March 2
- Attend Job Fair/Career Exploration Day
- Get involved with STEM
- Apply for STEM Scholarships
- Meet with a STEM Counselor
- Engage w/STEM Tutors
- Apply for STEM Internships

SUMMER SEMESTER (YEAR 3)

Course	Title	Units
<input type="checkbox"/> BIOL 100	Introductory Biology	4
<input type="checkbox"/> SPCH 101	Public Speaking	3

Total Units 7

Tasks

FALL SEMESTER (YEAR 3)

Course	Title	Units
<input type="checkbox"/> ENGR 152	Statics	3
<input type="checkbox"/> ENGR 161	Materials Science	3
<input type="checkbox"/> ENGR 162	Materials Science Lab	1
<input type="checkbox"/> HED 100	Health and Wellness	3
<input type="checkbox"/> PHYS 163	Engineering Physics 3	4

Total Units 14

Tasks:

- Meet with a STEM Counselor
- Develop Resume at Career Center
- Apply for University Transfer
- Engage w/STEM Tutors

- Review Financial Aid Requirements
- Apply for AHC Scholarship
- Get involved with STEM

SPRING SEMESTER (YEAR 3)

Course	Title	Units
<input type="checkbox"/> ENGR 154	Dynamics	3
<input type="checkbox"/> BIOL 150	Cellular Biology	5
<input type="checkbox"/> ENGR 170	Electric Circuit Analysis	3
<input type="checkbox"/> ENGR 171	Electric Circuit Lab	1
<input type="checkbox"/> IGETC/AHC GE	Humanities/Multinatural Course	3
Total Units		15

Tasks:

- Apply for Degree with Counseling
- Utilize Job Search Resources
- Complete: Transfer next steps
- Apply for STEM Internships
- Get involved with STEM

- Complete FAFSA or Dream Act by March 2
- Attend Job Fair/Career Exploration Day
- Apply for STEM Scholarships
- Engage w/STEM Tutors