# Program Requirements

## First Year

### Fall
- **CHEM 119** Fundamentals of Chemistry I 4
- **ENGL 104** Composition and Rhetoric 3
- **GEOL 150** Introduction to the Solid Earth 4
- **GEOL 180** Introduction to Geology and Geophysics 1
- **MATH 151** Engineering Mathematics I 4

Semester Credit Hours 16

### Spring
- **CHEM 120** Fundamentals of Chemistry II 4
- **GEOL 152** History of the Earth 4
- **MATH 152** Engineering Mathematics II 4
- **Communication** [Link](http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) 3

Semester Credit Hours 15

## Second Year

### Fall
- **GEOL 203** Mineralogy 4
- **GEOL 210** Geological Communication 3
- **MATH 251** Engineering Mathematics III 3
- **PHYS 206** Newtonian Mechanics for Engineering and Science 3
- **PHYS 226** Physics of Motion Laboratory for the Sciences 1

Semester Credit Hours 14

### Spring
- **GEOL 250** Geological Field Methods 4
- **GEOL 304** Igneous and Metamorphic Petrology 4
- **MATH 308** Differential Equations 3
- **PHYS 207** Electricity and Magnetism for Engineering and Science 3
- **PHYS 227** Electricity and Magnetism Laboratory for the Sciences 1

Semester Credit Hours 15

## Third Year

### Fall
- **GEOL 306** Sedimentology and Stratigraphy 4
- **GEOP 341** Fundamentals of Geophysics 3

Select one of the following:

American history [Link](http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) 3

Semester Credit Hours 15

## Fourth Year

### Fall
- **GEOL 450** Geology Senior Project 3

Select one of the following:

American history [Link](http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) 3

Semester Credit Hours 15

### Spring

Select one of the following:

American history [Link](http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) 3

Government/Political science [Link](http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) 3

Creative arts [Link](http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) 1

Social and behavioral science [Link](http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences) 1

Technical elective 2

Semester Credit Hours 16

### Summer
- **GEOL 350** Summer Field Geology 3

Semester Credit Hours 3

### Total Semester Credit Hours
120

1. The Graduation requirements include a requirement for three hours of International and Cultural Diversity [Link](http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) courses and three hours of Cultural Discourse [Link](http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) courses. A course satisfying a Core category, a college/
department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.

2 Any science, math or engineering course that augments the degree with the approval of the advisor.