

# GEOLOGY

## GEOLOGY PROGRAM - PROFESSIONAL OPTION

### Curriculum

The matrix below is a sample plan for all coursework required for this program.

#### Freshman

Fall	Credits
ENGL 1013 Composition I <sup>1</sup>	3
BIOL XXXX	4
PHSC 1001 Orientation to Physical Science	1
MATH 1113 College Algebra	3
GEOL 1014 Physical Geology	4
<b>Total Hours</b>	<b>15</b>

Spring	Credits
ENGL 1023 Composition II <sup>1</sup>	3
CHEM 2124 General Chemistry I and CHEM 2120 General Chemistry I Lab	4
PHSC 1011 Orientation to Physical Science II	1
MATH 1203 Plane Trigonometry	3
GEOL 2024 Historical Geology	4
<b>Total Hours</b>	<b>15</b>

#### Sophomore

Fall	Credits
USHG 1XXX U S HISTORY & GOVERNMENT <sup>1</sup>	3
CHEM 2134 General Chemistry II and CHEM 2130 General Chemistry II Lab	4
FW 2833 Introduction to Geographic Information Systems/GEOG 2833 Introduction to Geographic Information Systems	3
GEOL 2001 Seminar	1
GEOL 3014 Mineralogy	4
<b>Total Hours</b>	<b>15</b>

Spring	Credits
SFAH 1XXX Social Sciences/Fine Arts/Humanities Courses <sup>1</sup>	3
GEOL 3004 Structural Geology	4
GEOL 3124 Invertebrate Paleontology or General Electives	4

Spring	Credits
GEOL 3164 Petrology	4
<b>Total Hours</b>	<b>15</b>

**Junior**

Fall	Credits
PHYS 2014 Algebra-Based Physics I and PHYS 2000 Physics Laboratory I	4
GEOL 3001 Seminar	1
GEOL 3023 Geologic Field Techniques	3
GEOL 3044 Geomorphology	4
MATH/COMS Elective <sup>2</sup>	3-4
<b>Total Hours</b>	<b>15-16</b>

Spring	Credits
SFAH 1XXX Social Sciences/Fine Arts/Humanities Courses <sup>1</sup>	6
PHYS 2024 Algebra-Based Physics II and PHYS 2010 Physics Laboratory II	4
GEOL 3124 Invertebrate Paleontology or General Electives	4
GEOL 3174 Computer Applications in Geology or General Electives	4
<b>Total Hours</b>	<b>18</b>

**Senior**

Fall	Credits
SFAH 1XXX Social Sciences/Fine Arts/Humanities Courses <sup>1</sup>	3
GEOL 3153 Environmental Geology	3
GEOL 4001 Seminar	1
GEOL 4023 Principles of Stratigraphy and Sedimentation	3
Elective	3-4
<b>Total Hours</b>	<b>13-14</b>

Spring	Credits
SFHS 1XXX Social Sciences/Fine Arts/Humanities/Communication Courses <sup>1</sup>	3
SFAH 1XXX Social Sciences/Fine Arts/Humanities Courses <sup>1</sup>	3
GEOL 3174 Computer Applications in Geology or General Electives	4
<b>Total Hours</b>	<b>10</b>

**Ninth Semester - Summer**

Ninth Semester - Summer	Credits
GEOL 4006 Field Geology <sup>3</sup>	6
<b>Total Hours</b>	<b>6</b>

(After Junior or Senior Year)	Credits

<sup>1</sup>See appropriate choices, alternatives or substitutions in "General Education Requirements". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.

<sup>2</sup>COMS 1003 Introduction to Computer Based Systems, COMS 1013 Programming I and COMS 1011 Programming I Lab, MATH 2914 Calculus I, or STAT 2163 Introduction to Statistical Methods.

<sup>3</sup>GEOL 4006 Field Geology (6 credit hours of field geology) must be completed during the summer after Junior or Senior year.