

# GEOLOGY

## GEOLOGY PROGRAM - ENVIRONMENTAL 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
MATH 1113 College Algebra	3
PHSC 1001 Orientation to Physical Science	1
BIOL 1004 Principles of Environmental Science/ENVS 1004 Principles of Environmental Science/PHSC 1004 Principles of Environmental Science	4
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
COMS 1003 Introduction to Computer Based Systems	3
PHSC 1011 Orientation to Physical Science II	1
GEOL 2024 Historical Geology	4
<b>Total Hours</b>	<b>15</b>

#### Sophomore

Fall	Credits
ENGL 2053 Technical Writing	3
SFHS 1XXX Social Sciences/Fine Arts/Humanities/Communication Courses <sup>1</sup>	3
USHG 1XXX U S HISTORY & GOVERNMENT <sup>1</sup>	3
CHEM 2134 General Chemistry II and CHEM 2130 General Chemistry II Lab	4
GEOL 3014 Mineralogy	4
<b>Total Hours</b>	<b>17</b>

Spring	Credits
BIOL 1014 Introduction to Biological Science	4
SS 1XXX Social Science Courses <sup>1</sup>	3

Spring	Credits
COMS 2003 Microcomputer Applications	3
BIOL 2111 Environmental Seminar/CHEM 2111 Environmental Seminar/GEOL 2111 Environmental Seminar	1
GEOL 3164 Petrology	4
<b>Total Hours</b>	<b>15</b>

**Junior**

Fall	Credits
ENVS 3043 Conservation/BIOL 3043 Conservation	3
PHYS 2014 Algebra-Based Physics I and PHYS 2000 Physics Laboratory I	4
GEOL 3023 Geologic Field Techniques	3
GEOL 3044 Geomorphology or GEOL 3153 Environmental Geology	4-3
<b>Total Hours</b>	<b>13-14</b>

Spring	Credits
FAH 1XXX Fine Arts and Humanities Courses <sup>1</sup>	6
PHYS 2024 Algebra-Based Physics II and PHYS 2010 Physics Laboratory II	4
GEOL 3004 Structural Geology	4
BIOL 3111 Environmental Seminar/CHEM 3111 Environmental Seminar/ENVS 3111 Environmental Seminar/GEOL 3111 Environmental Seminar	1
<b>Total Hours</b>	<b>15</b>

**Senior**

Fall	Credits
SS 1XXX Social Science Courses <sup>1</sup>	3
Elective (3000-4000 level) <sup>2</sup>	3
FW 2833 Introduction to Geographic Information Systems/GEOG 2833 Introduction to Geographic Information Systems	3
GEOL 3153 Environmental Geology or GEOL 3044 Geomorphology	3
GEOL 3083 Hydrogeology	3
<b>Total Hours</b>	<b>15-16</b>

Spring	Credits
GEOL 3174 Computer Applications in Geology	4
GEOL 4043 Geochemistry	3

Spring	Credits
BIOL 4111 Environmental Seminar/CHEM 4111 Environmental Seminar/ENVS 4111/GEOL 4111 Environmental Seminar	1
Science Elective <sup>2</sup>	6
<b>Total Hours</b>	<b>14</b>

<sup>1</sup>See appropriate 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>Electives in Physical or Life Sciences and Mathematics (Geology, Biology, Chemistry, and Math).