# Bachelor of Science in Geo-Environmental Studies

## Geoscience Track

**2015-16 and beyond**

### Requirements for a B.S. in Geo-Environmental Studies

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Seminar</td>
<td>1</td>
</tr>
<tr>
<td>General Education Requirements (*included in Gen. Ed.)</td>
<td>4</td>
</tr>
</tbody>
</table>

### Major Requirements

**Core courses (21 Sem. Hrs [15 hrs Gen Ed])**

- BIO 1000 Principles of Biology* (3 hrs)
- BIO 3040 Ecology (4 hrs)
- CHM 1100 General Chemistry Lab 1 (1 hr)
- CHM 1300 General Chemistry 1* (3 hrs)
- MAT 2100 Statistics (3 hrs)
- PLS 1000 Intro to Political Science* (3 hrs)
- GGY 1010/1020 Prin. of Geo/World Reg. Geo.* (3 hrs)
- GGY 1150 Earth Science* (3 hrs)
- GGY 2500 Intro to Cartography (3 hrs)
- GGY 4100 Land Use Planning (3 hrs)
- GGY 1150 Earth Science Lab (1 hr)
- GLY 1150 Earth Science (3 hrs)
- GLY/4010 Internship (3 hrs)

### Geoscience Track Requirements (20 Sem. Hrs.)

- GLY 1250 Earth History
- GLYL 1250 Earth History Lab
- GLY 3100 Minerals and Rocks
- GLYL 3110 Minerals and Rocks Lab
- CHM 1110 General Chemistry Lab 2
- CHM 1310 General Chemistry 2
- CHM 2300 Basic Environmental Chemistry
- MAT 2150 or 2210 Intro to Calculus

### Upper Level Geo-Environmental courses (6 Sem. Hrs.)

- GGY 3290 Society and the Environment
- GGY 3312 Political Geography
- GGY 3700 Geography of Africa
- GGY 3720 North America
- GGY 3770 Geography of American Indians
- GGY 3780 Geography of Latin America
- GGY 3790 Geography of Asia
- GGY 3800 World Prehistory
- GGY 4010 Internship in Geography
- GGY 4040 Remote Sensing
- GGY 4010 Geology Internship
- GGY 4150 Geology Fieldtrip
- GGY 4250 Stratigraphy and Sedimentology
- GGY 4700 Writing in the Geosciences
- GLYS 4xxx Special Topics in Geology
- GGY 4040 Remote Sensing
- GGY 4xxx Special Topic in Geography

### Select courses (9 Sem. Hrs.)

- 2000 or higher level BIO, ENV, CSC, CHM, PHY, EGR, GLY, GGY classes;
- or MAT 2220 or 3000 or higher level Math classes

### Electives

- 19

**Total: 120**
GEOGRAPHY (GGY)
GGY 1010. Principles of Geography, 3 semester hours.
GGY 1020. World Regional Geography, 3 semester hours.
GGY 1150. Earth Science (GLY 1150), 3 semester hours.
GGYL 1150. Earth Science Laboratory (GLYL 1150), 1 semester hour.
GGY 2000. Cultural Geography, 3 semester hours.
GGY 2040. World Geography Bowl, 1 semester hour.
GGY 2060. Economic Geography (ECN 2060), 3 semester hours.
GGY 2460. Weather and Climate (GLY 2460, PHS 2460), 3 semester hours.
GGY 2500. Introduction to Cartography, 3 semester hours.
GGY 2620. Environmental Geology (GLY 2620), 3 semester hours.
GGY 2700. Introduction to Geographic Information Science, 4 semester hours.
GGY 3290. Society and the Environment, 3 semester hours.
GGY 3312. Political Geography (PLS 3312), 3 semester hours.
GGY 3700. Geography of Africa, 3 semester hours.
GGY 3720. North America, 3 semester hours.
GGY 3770. Geography of American Indians, 3 semester hours.
GGY 3780. Geography of Latin America, 3 semester hours.
GGY 3790. Geography of Asia, 3 semester hours.
GGY 3800. World Prehistory, 3 semester hours.
GGY 4010. Internship in Geography, 3-4 semester hours. PREREQ: Permission of instructor.
GGY 4020. Ground Penetrating Radar (GLY 4020), 1 semester hour.
GGY 4100. Land Use Planning, 3 semester hours. PREREQ: GGY 1010 and GGY 2500.
GGY 4700. Writing in the Geosciences, 3 semester hours. PREREQ: Junior or Senior, C or better in English 1060
GGYS 2xxx. General Topics in Geography, 1-4 semester hours.
GGYS 4xxx. Special Topics in Geography, 1-4 semester hours.

GEOLOGY (GLY)
GLY 1000. Physical Geology, 3 semester hours.
GLYL 1000. Physical Geology Laboratory, 1 semester hour. PREREQ: Current enrollment in or completion of GLY 1000.
GLY 1150. Earth Science (GGY 1150), 3 semester hours.
GLYL 1150. Earth Science Laboratory (GGYL 1150), 1 semester hr. PREREQ: Enrollment in or completion of GLY 1150.
GLY 1250. Earth History, 3 semester hours.
GLYL 1250. Earth History Laboratory, 1 semester hour. PREREQ: Current enrollment in or completion of GLY 1250.
GLY 2260. Oceanography, 3 semester hours. PREREQ: GLY 1000 or GLY 1150.
GLY 2460. Weather and Climate (GGY 2460, PHS 2460), 3 semester hours.
GLY 2620. Environmental Geology (GGY 2620), 3 semester hours. PREREQ: GLY 1000 or GLY 1150.
GLY 3100. Minerals and Rocks, 3 semester hrs. PREREQ: GLY 1000 or GLY 1150 and concurrent enrollment in GLY 3110.
GLY 3110. Minerals and Rocks Laboratory, 1 semester hour. Concurrent enrollment in GLY 3100.
GLY 3250. Paleontology, 3 semester hours. PREREQ: GLY 1000 or GLY 1150 & BIO 1000.
GLY 3660. Geomorphology, 3 semester hours. PREREQ: GLY 1000 or GLY 1150.
GLY 4010. Geology Internship, 3 semester hours. PREREQ: Departmental approval.
GLY 4020. Ground Penetrating Radar (GLY 4020), 1 semester hour.
GLY 4040. Remote Sensing (GLY 4040), 3 semester hours.
GLY 4150. Geology Field Trip, 1 - 3 semester hours. PREREQ: GLY 1150.
GLY 4250. Stratigraphy and Sedimentology, 3 semester hours. PREREQ: GLY 1250.
GLY 4700. Writing in the Geosciences, 3 semester hours. PREREQ: Junior or Senior, C or better in English 1060
GLYS 2xxx. General Topics in Geology, 1-4 semester hours.
GLYS 4xxx. Special Topics in Geology, 1-4 semester hours.