COURSE REQUIREMENTS
BACHELOR OF SCIENCE IN GEOSCIENCE-ENVIRONMENTAL GEOSCIENCE

Required Courses
Complete all of the following:

Geoscience Core:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 1100 Evolving Earth</td>
<td>3</td>
<td>Fall/Spring</td>
<td>None</td>
</tr>
<tr>
<td>GEO 2100 Reactive Earth</td>
<td>3</td>
<td>Fall/Spring</td>
<td>CHEM 1210, GEO 1100</td>
</tr>
<tr>
<td>GEO 2500 Wasatch in the Field</td>
<td>3</td>
<td>Fall</td>
<td>None</td>
</tr>
<tr>
<td>GEO 3100 Dynamic Earth</td>
<td>3</td>
<td>Fall/Spring</td>
<td>PHYS 2210, GEO 2100</td>
</tr>
<tr>
<td>GEO 4500 Field Methods</td>
<td>3</td>
<td>Spring</td>
<td>GEO 2500, 3100</td>
</tr>
</tbody>
</table>

Environmental Capstone:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 4510 Field Geology (Pt. 1)</td>
<td>2</td>
<td>Summer</td>
<td>GEO 4500</td>
</tr>
<tr>
<td>GEO 4520 Field Geology (Pt. 2)</td>
<td>2</td>
<td>Summer</td>
<td>GEO 4510</td>
</tr>
</tbody>
</table>

Electives:

- Complete at least 12 credits from the following types of courses:
  3000-5999 in GEO, MET E, ATMOS, MG EN, BIOL, MATH, CHEM, PHYS, BIOEN, CH EN, CS, CVEEN, ECE, ME EN, MSE

Emphasis Required Courses
Complete all of the following:

General Environmental:
Earn at least 6 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMOS 3100 Atmos Chem</td>
<td>3</td>
<td>Spring Odd Years</td>
<td>CHEM 1210, MATH 1220</td>
</tr>
<tr>
<td>BIOL 1210 Principles of Biology</td>
<td>4</td>
<td>All</td>
<td>None</td>
</tr>
<tr>
<td>BIOL 1610 Fund Prin of Biol I</td>
<td>3</td>
<td></td>
<td>MATH 1010</td>
</tr>
<tr>
<td>BIOL 1620 Fund Prin of Biol II</td>
<td>3</td>
<td></td>
<td>MATH 1010</td>
</tr>
<tr>
<td>BIOL 2010 Evol &amp; Div of Life</td>
<td>3</td>
<td>Fall/Spring</td>
<td>BIOL 1210</td>
</tr>
<tr>
<td>BIOL 3410 Eco &amp; Evol</td>
<td>3</td>
<td>Spring</td>
<td>BIOL 2010, MATH 1210</td>
</tr>
<tr>
<td>GEO 3180 Paleobiology</td>
<td>3</td>
<td>Spring</td>
<td>None</td>
</tr>
<tr>
<td>GEO 3300 The Water Planet</td>
<td>3</td>
<td>Spring</td>
<td>None</td>
</tr>
<tr>
<td>GEO 3800 The Oceans</td>
<td>3</td>
<td>Fall</td>
<td>GEO 1010 or 1100</td>
</tr>
<tr>
<td>GEOG 3210 Global Climate Ch</td>
<td>3</td>
<td>Spring</td>
<td>None</td>
</tr>
</tbody>
</table>
Carbon Cycle:
Complete at least 1 of the following:
• GEO 5675 Paleoclimate Recon 3 None
• GEO 5680 The Carbon Cycle 3 None

Physical Hydrology:
Complete at least 1 of the following:
• GEO 5350 Groundwater 3 Fall MATH 1220
• GEO 5650 Hydro & Water Res 3 None

Chemical Hydrology:
Complete at least 1 of the following:
• GEO 5390 Solute Trans & Sub Re 3 Spring GEO 5350
• GEO 5660 Geochemistry 3 Fall CHEM 1220
• GEO 5370 Contaminant Part. 3 CHEM 1210, 1220

Geoscience Electives:
Earn at least 6 credits from GEO 5000-5999

Allied Science
Complete all of the following:
• CHEM 1210 General Chemistry I 4 All MATH 1050
• CHEM 1215 Gen Chem I Lab 1 All CHEM 1210 coreq
• CHEM 1220 General Chemistry II 4 All CHEM 1210
• CHEM 1225 Gen Chem II Lab 1 All CHEM 1215
• MATH 1210 Calculus I 4 All MATH 1050 & 1060 or MATH 1080
• MATH 1220 Calculus II 4 All MATH 1210
• PHYS 2210 Physics for Sci&Eng I 4 All MATH 1210
• PHYS 2220 Physics for Sci&Eng II 4 All PHYS 2210, MATH 1220

Complete at least 1 of the following:
• MET E 3070 Stat Methods in ESE 3 Fall MATH 1050
• MATH 3070 Applied Statistics I 4 All MATH 1220

Other Requirements
University of Utah General Education Requirements

The University of Utah requires a total of 122 college level credits to complete a Bachelor’s degree. Additional elective courses may need to be completed to fulfill the total of 122 credits. Check with your academic advisor with any questions or concerns.

Academic Advisor
Michelle Tuitupou
michelle.tuitupou@utah.edu
801-581-6553
383 FASB

Updated: 4/4/2018
SAMPLE SCHEDULE
BACHELOR OF SCIENCE IN GEOSCIENCE-ENVIRONMENTAL GEOSCIENCE

Fall Semester                      Spring Semester
MATH 1210                        MATH 1220
       4                                4
CHEM 1210                        CHEM 1220
       4                                4
CHEM 1215                        CHEM 1225
       1                                1
GEO 1100                          GEO 2100
       3                                3
GEO 2500                          WRTG 2010 (WR)
       3                                3
Total: 15                          Total: 15

Fall Semester                      Spring Semester
PHYS 2210                        PHYS 2220
       4                                4
GEO 3100 (QI)                    General Environmental
       3                                3
MET E 3070 (AI)                Physical Hydrology
       3                                3
Total: 13                          Total: 13

Fall Semester                      Spring Semester
General Environmental
       3                                Chemical Hydro (QI)
Carbon cycle
       3                                Elective
Elective
       3                                Geoscience Elective
(BF)                                 (FF)
       3                                (HF)
Total: 12                          Total: 15

Fall Semester                      Spring Semester
Elective
       3                                GEO 4500 (CW)
Geoscience Elective
       3                                Elective
(FF)                                 (IR)
       3                                (DV)
(HF)                                 (HF)
Total: 12                          Total: 12

Summer
GEO 4510 2
GEO 4520 2
Total: 4

1Elective: Completed at least 12 credits from the following types of courses: 3000 - 5999 in GEO, MET E, ATMOS, MG EN, BIOL, MATH, CHEM, PHYS, BIOEN, CH EN, CS, CVEEN, ECE, ME EN, MSE

2General Environmental: Earned at least 6 credits from the following: GEO 3180 - Paleobiology (3), BIOL 1210 - Principles of Biology (4), BIOL 2330 - Plants and Society (3), BIOL 1400 - Introduction to Environmental Science (3), BIOL 2010 - Evolution & Diversity of Life (3), BIOL 3410 - Ecology and Evolution (3), GEO 3300 - The Water Planet (3), GEO 3800 - The Oceans (3), ATMOS 3100 - Atmospheric Chemistry and Air Pollution (3), GEOG 3210 - Global Climate Change (3), BIOL 1610 - Fundamental Principles of Biology I: Cells, Genetics, and Biochemistry (3), BIOL 1620 - Fundamental Principles of Biology II: Evolution and Diversity of Life (3).

3Physical Hydrology: Completed at least 1 of the following: GEO 5350 - Groundwater (3), GEO 5650 - Hydrology and Water Resources (3).

4Carbon Cycle: Completed at least 1 of the following: GEO 5675 - Paleoecology (3), GEO 5680 - The Carbon Cycle: Past, Present, Future (3).

5Chemical Hydrology: Completed at least 1 of the following: GEO 5390 - Solute Transport and Subsurface Remediation (3), GEO 5660 - Geochemistry (3), GEO 5370 - Contaminant Partitioning (3).

6Geoscience Elective: Earned at least 6 credits from GEO 5000 – 5999.

The University of Utah requires a total of 122 college level credits to complete a Bachelor’s degree. Additional elective courses may need to be completed to fulfill the total of 122 credits. Check with your academic advisor with any questions or concerns.

Academic Advisor: Michelle Tuitupou  michelle.tuitupou@utah.edu  801-581-6553  383 FASB

Updated: 4/4/2018