

# Geoscience, B.S.

## Academic Plans

### Four-Year Graduation Plan

The following checkpoints list the minimum requirements students must complete by certain semesters in order to stay on the university's Four-Year Graduation Plan. Courses in the major are those required to complete the major; they may be offered by departments other than the major department.

These checkpoints show the range of required coursework. The major requires field trip experiences, many of which take place during breaks in or between semesters or during the summer session. These checkpoints do not include the field trip requirements.

**Before the third semester begins:** competence in math through trigonometry and the first required chemistry course.

**Before the fifth semester begins:** three to five courses in the major, including the remainder of the chemistry requirement and continuation of the mathematics requirement.

**Before the seventh semester begins:** 7-11 courses in the major and at least 90 s.h. earned toward the degree.

**Before the eighth semester begins:** 10-14 courses in the major.

**During the eighth semester:** enrollment in all remaining coursework in the major, all remaining GE CLAS Core courses, and a sufficient number of semester hours to graduate.

### Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

### Geoscience, B.S.

Course	Title	Hours
<b>Academic Career</b>		
<b>Any Semester</b>		
Research: students are strongly encouraged to be active participants in research within the department.		
While only two field courses are required (EES:2831 Geologic Field Methods and EES:4832 Geologic Field Analysis), students are encouraged to participate in additional field experiences, whenever possible.		
GE CLAS Core: Sustainability <sup>a</sup>		
<b>Hours</b>		<b>0</b>
<b>First Year</b>		
<b>Fall</b>		
EES:1030 or EES:1050	Introduction to Earth Science <sup>b, c</sup> or Introduction to Geology	4
CHEM:1110	Principles of Chemistry I <sup>c, d</sup>	4
MATH:1850	Calculus I <sup>c, e</sup>	4
ENGL:1200 or RHET:1030	The Interpretation of Literature or Rhetoric	3 - 4
CSI:1600	Success at Iowa	2
<b>Hours</b>		<b>17-18</b>

<b>Spring</b>		
EES:2200	Historical Geology	4
CHEM:1120	Principles of Chemistry II	4
MATH:1860	Calculus II	4
RHET:1030 or ENGL:1200	Rhetoric or The Interpretation of Literature	3 - 4
<b>Hours</b>		<b>15-16</b>

<b>Second Year</b>		
<b>Fall</b>		
EES:2410	Mineralogy	4
EES:1040	Evolution and the History of Life	4
PHYS:1611	Introductory Physics I	4
GE CLAS Core: World Languages First Level Proficiency or elective course <sup>f</sup>		4 - 5
<b>Hours</b>		<b>16-17</b>

<b>Spring</b>		
EES:2001	Second-Year Field Trip for Earth and Environmental Sciences <sup>g</sup>	1
EES:3500	Igneous and Metamorphic Petrology	4
PHYS:1612	Introductory Physics II	4
GE CLAS Core: Diversity and Inclusion <sup>h</sup>		3
GE CLAS Core: World Languages Second Level Proficiency or elective course <sup>f</sup>		4 - 5
<b>Hours</b>		<b>16-17</b>

<b>Summer</b>		
EES:2831	Geologic Field Methods	3
<b>Hours</b>		<b>3</b>

<b>Third Year</b>		
<b>Fall</b>		
EES:3001	Third-Year Field Trip for Earth and Environmental Sciences <sup>g</sup>	1
EES:3300	Sedimentary Geology	4
Major: geoscience elective course prefix EES numbered 3000 or above		3 - 4
GE CLAS Core: Historical Perspectives <sup>h</sup>		3
GE CLAS Core: World Languages Third Level Proficiency or elective course <sup>f</sup>		4 - 5
<b>Hours</b>		<b>15-17</b>

<b>Spring</b>		
EES:3840	Structural Geology	4
Major: biology lab science course (prefix BIOL)		4
GE CLAS Core: Social Sciences <sup>h</sup>		3
GE CLAS Core: World Languages Fourth Level Proficiency or elective course <sup>f</sup>		4 - 5
<b>Hours</b>		<b>15-16</b>

<b>Summer</b>		
EES:4832	Geologic Field Analysis	3
<b>Hours</b>		<b>3</b>

<b>Fourth Year</b>		
<b>Fall</b>		
EES:4001	Fourth-Year Field Trip for Earth and Environmental Sciences <sup>g</sup>	2
Major: math/statistics/computer science course <sup>i</sup>		3 - 4
Major: geoscience elective course prefix EES numbered 3000 or above		3 - 4

GE CLAS Core: Literary, Visual, and Performing Arts <sup>h</sup>	3
GE CLAS Core: International and Global Issues <sup>h</sup>	3
<b>Hours</b>	<b>14-16</b>
<b>Spring</b>	
Major: geoscience "select one" course <sup>j</sup>	3 - 4
Major: geoscience elective course prefix EES numbered 3000 or above	2 - 4
GE CLAS Core: Values and Culture <sup>h</sup>	3
Elective course <sup>k</sup>	3
Elective course <sup>k</sup>	3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) <sup>l</sup>	
<b>Hours</b>	<b>14-17</b>
<b>Total Hours</b>	<b>128-140</b>

a Sustainability must be completed by choosing a course that has been approved for Sustainability AND for one of these General Education areas: Natural Sciences; Quantitative and Formal Reasoning; Social Sciences; Historical Perspectives; International and Global Issues; Literary, Visual, and Performing Arts; or Values and Culture.

b EES:1050 is preferred.

c Fulfills a major requirement and may fulfill a GE requirement.

d Enrollment in chemistry courses requires completion of a placement exam.

e Enrollment in math courses requires completion of a placement exam.

f Students who have completed four years of a single language in high school have satisfied the GE CLAS Core World Languages requirement. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course.

g Recommended but not required to complete Geoscience BS degree requirements.

h GE CLAS Core courses may be completed in any order unless used as a prerequisite for another course. Students should consult with an advisor about the best sequencing of courses.

i Choose from a MATH course numbered 2000 or above, a CS course numbered 1110 or above, a STAT course numbered 2010 or above, or EES:3100 (if the EES courses are not used to satisfy the earth and environmental sciences electives requirement).

j Choose from EES:3210, EES:4490, EES:4630, EES:4790, or EES:4800.

k Students may use elective courses to earn credit towards the total s.h. required for graduation or to complete a double major, minors, or certificates.

l Please see Academic Calendar, Office of the Registrar website for current degree application deadlines. Students should apply for a degree for the session in which all requirements will be met. For any questions on appropriate timing, contact your academic advisor or Graduation Services.