

# Geography, 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.

**Before the third semester begins:** two introductory courses in the major.

**Before the fifth semester begins:** six courses in the major.

**Before the seventh semester begins:** 12 courses in the major and at least 90 s.h. earned toward the degree.

**Before the eighth semester begins:** 15 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 Plans 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.

### Geography, B.S.

- Environmental Studies Track [p. 1]
- Geographic Information Science Track [p. 2]
- Health and Society Track [p. 3]

### Environmental Studies Track

Course	Title	Hours
<b>Academic Career</b>		
<b>Any Semester</b>		
GE CLAS Core: Sustainability <sup>a</sup>		
	<b>Hours</b>	<b>0</b>
<b>First Year</b>		
<b>Fall</b>		
GEOG:1020	The Global Environment <sup>b</sup>	3
GEOG:1021	The Global Environment Lab <sup>b</sup>	1
GEOG:1090	Globalization and Geographic Diversity <sup>b</sup>	3
RHET:1030	Rhetoric	3 - 4
or ENGL:1200	or The Interpretation of Literature	
GE CLAS Core: Historical Perspectives <sup>c</sup>		3
CSI:1600	Success at Iowa	2
	<b>Hours</b>	<b>15-16</b>
<b>Spring</b>		
GEOG:1070	Contemporary Environmental Issues <sup>b</sup>	3
Major: geography "select one" course <sup>d, e</sup>		3 - 4
ENGL:1200	The Interpretation of Literature	3 - 4
or RHET:1030	or Rhetoric	
GE CLAS Core: Values and Culture <sup>c</sup>		3

Elective course <sup>f</sup>		3
	<b>Hours</b>	<b>15-17</b>

<b>Second Year</b>		
<b>Fall</b>		
GEOG:1050	Foundations of GIS	4
STAT:2010	Statistical Methods and Computing <sup>b</sup>	3
GE CLAS Core: World Languages First Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		2

	<b>Hours</b>	<b>16-17</b>
<b>Spring</b>		
STAT:3200	Applied Linear Regression	3
Major: environmental studies track course		3
GE CLAS Core: Diversity and Inclusion <sup>c</sup>		3
GE CLAS Core: World Languages Second Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		2

	<b>Hours</b>	<b>15-16</b>
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<b>Third Year</b>		
<b>Fall</b>		
Major: GIS "select one" course <sup>h</sup>		3
Major: computer science/math course <sup>i, j</sup>		3 - 4
Major: environmental studies track course		3
GE CLAS Core: World Languages Second Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		2

	<b>Hours</b>	<b>15-17</b>
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<b>Spring</b>		
GEOG:3992	Undergraduate Research	1 - 3
or CCP:1201	or Academic Internship	
or GEOG:3400	or Iowa Environmental Policy in Practice	
Major: environmental studies track course		3
GE CLAS Core: Literary, Visual, and Performing Arts <sup>c</sup>		3
GE CLAS Core: World Languages Fourth Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		3

	<b>Hours</b>	<b>14-17</b>
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<b>Fourth Year</b>		
<b>Fall</b>		
Major: environmental studies track course		3
GE CLAS Core: Natural Sciences without Lab <sup>c</sup>		3
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		3

	<b>Hours</b>	<b>15</b>
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<b>Spring</b>		
GEOG:4030	Senior Project Seminar	3
or GEOG:4995	or Honors Thesis	
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		3

Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall)

<b>Hours</b>	<b>15</b>
<b>Total Hours</b>	<b>120-130</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 Fulfills a major requirement and may fulfill a GE requirement.
- c 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.
- d Choose from the following options: GEOG:1060, GEOG:1070, GEOG:2110, GEOG:2910, GEOG:2950.
- e Students cannot choose a course that they have already used elsewhere in the major.
- f 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.
- g 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.
- h Students cannot double-count the same course for this requirement and a requirement in the track.
- i Choose from the following options: CS:1210, CS:2110, CS:2230, MATH:1380, MATH:1460. This course should be chosen based on math placement exam and/or prior coursework, and cannot count for more than one major requirement.
- j Enrollment in math courses requires completion of a placement exam.
- k 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.

### Geographic Information Science Track

Course	Title	Hours
<b>Academic Career</b>		
<b>Any Semester</b>		
GE CLAS Core: Sustainability <sup>a</sup>		<b>0</b>
<b>First Year</b>		
<b>Fall</b>		
GEOG:1020	The Global Environment <sup>b</sup>	3
GEOG:1021	The Global Environment Lab <sup>b</sup>	1
GEOG:1090	Globalization and Geographic Diversity <sup>b</sup>	3
RHET:1030	Rhetoric	3 - 4
or ENGL:1200	or The Interpretation of Literature	
GE CLAS Core: Historical Perspectives <sup>c</sup>		3

CSI:1600	Success at Iowa	2
<b>Hours</b>		<b>15-16</b>

<b>Spring</b>		
GEOG:1050	Foundations of GIS	4
Major: geography	"select one" course <sup>d, e</sup>	3 - 4
ENGL:1200	The Interpretation of Literature	3 - 4
or RHET:1030	or Rhetoric	
GE CLAS Core: Values and Culture <sup>c</sup>		3
Elective course <sup>f</sup>		3

<b>Hours</b>		<b>16-18</b>
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<b>Second Year</b>		
<b>Fall</b>		
STAT:2010	Statistical Methods and Computing <sup>b</sup>	3
Major: GIS track course		3
GE CLAS Core: Diversity and Inclusion <sup>c</sup>		3
GE CLAS Core: World Languages First Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		2

<b>Hours</b>		<b>15-16</b>
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<b>Spring</b>		
STAT:3200	Applied Linear Regression	3
Major: GIS track course		3
GE CLAS Core: International and Global Issues or Social Sciences <sup>c</sup>		3
GE CLAS Core: World Languages Second Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		2

<b>Hours</b>		<b>15-16</b>
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<b>Third Year</b>		
<b>Fall</b>		
CS:1110	Introduction to Computer Science <sup>b</sup>	3 - 4
or CS:1210	or Computer Science I: Fundamentals	
or CS:2110	or Programming for Informatics	
Major: GIS track course		3
GE CLAS Core: Literary, Visual, and Performing Arts <sup>c</sup>		3
GE CLAS Core: World Languages Second Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		2

<b>Hours</b>		<b>15-17</b>
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<b>Spring</b>		
GEOG:3400	Iowa Environmental Policy in Practice	1 - 3
or CCP:1201	or Academic Internship	
or GEOG:3992	or Undergraduate Research	
Major: GIS track course		3
Major: computer science/math course <sup>h, i</sup>		3 - 4
GE CLAS Core: World Languages Fourth Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		3

<b>Hours</b>		<b>14-18</b>
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<b>Fourth Year</b>		
<b>Fall</b>		
Major: GIS track course		3
GE CLAS Core: Natural Sciences without Lab <sup>c</sup>		3
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		3

Elective course <sup>f</sup>	3
<b>Hours</b>	<b>15</b>
<b>Spring</b>	
GEOG:4030 Senior Project Seminar or GEOG:4995 or Honors Thesis	3
Elective course <sup>f</sup>	3
Elective course <sup>f</sup>	3
Elective course <sup>f</sup>	3
Elective course <sup>f</sup>	3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) <sup>j</sup>	
<b>Hours</b>	<b>15</b>
<b>Total Hours</b>	<b>120-131</b>

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- b Fulfills a major requirement and may fulfill a GE requirement.
- c 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.
- d Students cannot choose a course that they have already used elsewhere in the major.
- e Choose from the following options: GEOG:1060, GEOG:1070, GEOG:2110, GEOG:2910, GEOG:2950.
- f 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.
- g 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.
- h Choose from the following options: CS:1210, CS:2110, CS:2230, MATH:1380, MATH:1460. This course should be chosen based on math placement exam and/or prior coursework, and cannot count for more than one major requirement.
- i Enrollment in math courses requires completion of a placement exam.
- j 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.

### Health and Society Track

Course	Title	Hours
<b>Academic Career</b>		
<b>Any Semester</b>		
GE CLAS Core: Sustainability <sup>a</sup>		
<b>Hours</b>		<b>0</b>
<b>First Year</b>		
<b>Fall</b>		
GEOG:1020	The Global Environment <sup>b</sup>	3
GEOG:1021	The Global Environment Lab <sup>b</sup>	1

GEOG:1090	Globalization and Geographic Diversity <sup>b</sup>	3
RHET:1030 or ENGL:1200	Rhetoric or The Interpretation of Literature	3 - 4
GE CLAS Core: Historical Perspectives <sup>c</sup>		3
CSI:1600	Success at Iowa	2
<b>Hours</b>		<b>15-16</b>

<b>Spring</b>		
GEOG:2110	Seven Billion and Counting: Introduction to Population Dynamics <sup>b</sup>	3
Major: geography "select one" course <sup>d, e</sup>		3 - 4
RHET:1030 or ENGL:1200	Rhetoric or The Interpretation of Literature	3 - 4
GE CLAS Core: Values and Culture <sup>c</sup>		3
Elective course <sup>f</sup>		3
<b>Hours</b>		<b>15-17</b>

<b>Second Year</b>		
<b>Fall</b>		
STAT:2010	Statistical Methods and Computing <sup>b</sup>	3
GE CLAS Core: Diversity and Inclusion <sup>c</sup>		3
GE CLAS Core: World Languages First Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		2
<b>Hours</b>		<b>15-16</b>

<b>Spring</b>		
GEOG:1050	Foundations of GIS	4
STAT:3200	Applied Linear Regression	3
GE CLAS Core: World Languages Second Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		1
<b>Hours</b>		<b>15-16</b>

<b>Third Year</b>		
<b>Fall</b>		
GEOG:3110	Geography of Health	3
Major: computer science/math course <sup>h, i</sup>		4
GE CLAS Core: Literary, Visual, and Performing Arts <sup>c</sup>		3
GE CLAS Core: World Languages Second Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		2
<b>Hours</b>		<b>16-17</b>

<b>Spring</b>		
CCP:1201 or GEOG:3992 or GEOG:3400	Academic Internship or Undergraduate Research or Iowa Environmental Policy in Practice	1 - 3
Major: Health and Society "select two" course <sup>j</sup>		3
Major: GIS "select one" course <sup>k</sup>		3
GE CLAS Core: World Languages Fourth Level Proficiency or elective course <sup>g</sup>		4 - 5
Elective course <sup>f</sup>		3
<b>Hours</b>		<b>14-17</b>

**Fourth Year****Fall**

GEOG:4150	Health and Environment: GIS Applications	3
Major: Health and Society "select two" course <sup>j</sup>		3
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		3
<b>Hours</b>		<b>15</b>

**Spring**

GEOG:4995	Honors Thesis or GEOG:4030 or Senior Project Seminar	3
GE CLAS Core: Natural Sciences without Lab <sup>c</sup>		3
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		3
Elective course <sup>f</sup>		3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) <sup>l</sup>		
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120-129</b>

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- c 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.
- d Choose from the following options: GEOG:1060, GEOG:1070, GEOG:2110, GEOG:2910, GEOG:2950.
- e Students cannot choose a course that they have already used elsewhere in the major.
- f 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.
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- h Choose from the following options: CS:1210, CS:2110, CS:2230, MATH:1380, MATH:1460. This course should be chosen based on math placement exam and/or prior coursework, and cannot count for more than one major requirement.
- i Enrollment in math courses requires completion of a placement exam.
- j Choose from the following: GEOG:3070, GEOG:3210, GEOG:3300, GEOG:3760, GEOG:3920, GEOG:4770.
- k Cannot use GEOG:4150, as it is required elsewhere in the track.
- 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.