

# Geographical and Sustainability Sciences, BA

## Requirements

The Bachelor of Arts with a major in geographical and sustainability sciences requires a minimum of 120 s.h., including at least 55 s.h. of work for the major. Students must maintain a grade-point average of at least 2.00 in all courses for the major and in all UI courses for the major. They must also complete the College of Liberal Arts and Sciences GE CLAS Core. Transfer students must complete a minimum of 15 s.h. of School of Earth, Environment, and Sustainability coursework in the major.

In planning coursework, students should be guided by the College of Liberal Arts and Sciences maximum hours rule: students earning a BA may apply a maximum of 56 s.h. earned in one department to the minimum 120 s.h. required for graduation, whether or not the coursework is accepted toward requirements for the major; students who earn more than 56 s.h. from one department may use the additional semester hours to satisfy requirements for the major (if the department accepts them), and the grades they earn become part of their grade-point average, but they cannot apply the additional semester hours to the minimum 120 s.h. required for graduation.

Students who are earning two majors from the same department (e.g. a BA in geographical and sustainability sciences and a BA in environmental policy and planning), two degrees from the same department (e.g. a BA in geographical and sustainability sciences and a BS in earth and environmental science), or a major and a minor from the same department (e.g. a BA in geographical and sustainability sciences and a minor in environmental policy and planning) may apply more than 56 s.h. from their home department toward their degree, but they must earn at least 56 s.h. of credit in courses outside their home department in order to graduate.

The BA with a major in geographical and sustainability sciences requires the following coursework.

Requirements	Hours
Foundation Courses	34-37
Elective Courses	21

## Foundation Courses

Course #	Title	Hours
All of these:		
SEES:1035	Our Digital Earth	3
SEES:1070	Contemporary Environmental Issues	3
SEES:1085	Fundamentals of Environmental Science	4
SEES:1090	Globalization and Geographic Diversity	3
SEES:2010	Interdisciplinary Environmental Seminar	1

SEES:2013/ BUS:2013/ URP:2013	Introduction to Sustainability	3
SEES:2050	Foundations of GIS	4
SEES:2110/ GHS:2110	Eight Billion and Counting: Introduction to Population Dynamics	3

One of these:

SEES:2310	Introduction to Climatology	3
SEES:2950	Environmental Conservation	4

One of these:

CS:1110	Introduction to Computer Science	3
STAT:2010	Statistical Methods and Computing	3
STAT:3200/ DATA:3200/ IGPI:3200/ISE:3760	Applied Linear Regression	3

One of these:

SEES:3400	Iowa Environmental Policy in Practice	3
SEES:3992	Undergraduate Research (or ICI GO)	1-3
CCP:1201	Academic Internship	1-3

One of these:

SEES:4030	Senior Project Seminar	3
SEES:4995	Honors Thesis	3

## Elective Courses

Students complete at least 21 s.h. of electives with at least one course chosen from each of four categories: environment, methods, society, and sustainability.

### Environment Electives

Course #	Title	Hours
At least one of these:		
SEES:3315	Ecosystem Ecology	4
SEES:4310	Climate Change	3
SEES:4470	Ecological Climatology	3

### Methods Electives

Course #	Title	Hours
At least one of these:		
SEES:3500/ IGPI:3500	Introduction to Environmental Remote Sensing	3
SEES:3520/ IGPI:3520	GIS for Environmental Applications	3
SEES:3540/ IGPI:3540	Geographic Visualization	3
SEES:3570	Light Detection and Ranging (LiDAR): Principles and Applications	3
SEES:4010	Field Methods in Physical Geography	3
SEES:4150/ GHS:4150/ IGPI:4150	Health and Environment: GIS Applications	3
SEES:4500/ IGPI:4500	Advanced Remote Sensing	4

SEES:4520/ IGPI:4520	GIS for Environmental Studies: Applications	3
-------------------------	--	---

## Society Electives

Course #	Title	Hours
At least one of these:		
SEES:3090/ GHS:3070	Hungry Planet: Global Geographies of Food	3
SEES:3110/ GHS:3111	Geography of Health	3
SEES:3760/ GHS:3760	Hazards and Society	3
SEES:4770/ AFAM:4770/ GHS:4770	Environmental Justice	3

## Sustainability Electives

Course #	Title	Hours
At least one of these:		
SEES:3340	Ecosystem Services	3
SEES:3350	Urban Ecology	3
SEES:3920/ URP:3001	Planning Livable Cities	3
SEES:4210	Sustainability as a System Science	3
SEES:4750/ URP:4750	Environmental Impact Analysis	3