

# Environmental Sciences, Minor

## Requirements

The undergraduate minor in environmental sciences requires a minimum of 15 s.h. in University of Iowa environmental sciences coursework. Students must maintain a g.p.a. of at least 2.00 in all courses for the minor and in all UI courses for the minor. Coursework in the minor may not be taken pass/nonpass.

The minor in environmental sciences requires the following coursework.

Code	Title	Hours
One of these:		
ENVS:1080/ EES:1080	Introduction to Environmental Science	4
ENVS:1085/ EES:1085	Fundamentals of Environmental Science	4
One environmental sciences foundation course, chosen from these:		
ENVS:2673/ BIOL:2673	Ecology	3
ENVS:3020/ EES:3020/ GEOG:3020	Earth Surface Processes	3
GEOG:1050	Foundations of GIS	4
GEOG:3500/ IGPI:3500	Introduction to Environmental Remote Sensing	3
And:		
Courses in one of the four environmental sciences tracks below		7-8

## Tracks

Track courses must include one 3-4 s.h. track foundation course and 3-4 s.h. in track field study coursework. The tracks are biosciences, chemical sciences, geosciences, and hydrosciences.

### Biosciences Track

#### Foundation Courses

Code	Title	Hours
BIOL:2246	Entomology Lab	4
BIOL:3172	Evolution	4
EES:3070	Marine Ecosystems and Conservation	3
EES:3220	Evolution of the Vertebrates	4
GEOG:2374/ BIOL:2374	Biogeography	3
GEOG:2950	Environmental Conservation	4
GEOG:3350	Urban Ecology	3
GEOG:4470	Ecological Climatology	3
Iowa Lakeside Laboratory courses (prefix IALL) may be approved in consultation with an environmental sciences advisor		

### Field Study Courses

Code	Title	Hours
3-4 s.h. from these:		
ENVS:3095	Field Ecology	4
ENVS:3096	Winter Ecology	2
ENVS:3097	Introduction to Bird Study	2
ENVS:3230	Special Topics (must include field component)	3-4
IALL:3103	Aquatic Ecology	4
IALL:3109	Ecology and Systematics of Algae	4
IALL:3117	Ecology and Systematics of Diatoms	2,4
IALL:3123	Prairie Ecology I	2
IALL:3125	Prairie Ecology II	2
IALL:3126	Ornithology	4

Other Iowa Lakeside Laboratory courses (prefix IALL) may be approved in consultation with an environmental sciences advisor

## Chemical Sciences Track

### Foundation Courses

Code	Title	Hours
CEE:4150/CBE:4420	Environmental Chemistry	3
CHEM:2210	Organic Chemistry I	3
CHEM:2220	Organic Chemistry II	3
CHEM:2230	Organic Chemistry I for Majors	3
CHEM:2240	Organic Chemistry II for Majors	3
CHEM:3110	Analytical Chemistry I	3
CHEM:3120	Analytical Chemistry II	3
CHEM:3250	Inorganic Chemistry	3
CHEM:4431	Physical Chemistry I	3
CHEM:4432	Physical Chemistry II	3

### Field Study Courses

Code	Title	Hours
CHEM:2410	Organic Chemistry Laboratory	3
CHEM:3430	Analytical Measurements	3

## Geosciences Track

### Foundation Courses

Code	Title	Hours
EES:2200/ ENVS:2200	Historical Geology	4
EES:2410	Mineralogy	4
EES:3300	Sedimentary Geology	4
EES:3360/ GEOG:3360	Soil Genesis and Geomorphology	3
EES:3500	Igneous and Metamorphic Petrology	4
EES:3840	Structural Geology	4
EES:4630	Hydrogeology	4
EES:4790	Applied Environmental Geology	3

## Field Study Courses

Code	Title	Hours
EES:2831	Geologic Field Methods	3
EES:4680	Field Methods in Hydrologic Science	3
GEOG:4010	Field Methods in Physical Geography	3

## Hydrosciences Track

### Foundation Courses

Code	Title	Hours
EES:3110/ ENVS:3110	Chemical Evolution of the Oceans	3
EES:3380/CEE:3328	Fluvial Geomorphology	3
EES:3390	Integrated Watershed Analysis	3
EES:4490	Elements of Geochemistry	3
EES:4630	Hydrogeology	4
EES:4790	Applied Environmental Geology	3

### Field Study Course

Code	Title	Hours
EES:4680	Field Methods in Hydrologic Science	3