



# Environmental Studies, B.S. *major*

## Industrial Ecology Emphasis

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Required Credits: 75

Required GPA: 2.25

### REQUIRED CORE COURSES

#### COMPLETE THE FOLLOWING COURSES:

- ECON 2000 Markets and Resource Allocation (3 credits)
- ENVR 2000 Introduction to Environmental Science (3 credits)
- ENVR 3300 Environmental Management and Safety (3 credits)
- GEOG 3231 Introduction to Geographic Information Systems (3 credits)
- GEOL 1110 Physical Geology (4 credits)
- GEOL 3211 Environmental Hydrology (3 credits)

#### COMPLETE THE FOLLOWING COURSE:

- ENVR 3880 Environmental Controversies (2 credits)

#### COMPLETE THE FOLLOWING COURSE:

- ENVR 4880 Senior Seminar I (1 credit)

#### SELECT 1 OF THE FOLLOWING COURSES:

- CHEM 1111 General Chemistry I (4 credits)
- CHEM 2211 Principles of Chemistry I (4 credits)

#### SELECT 1 OF THE FOLLOWING COURSES:

- ECON 3040 Environmental Economics (3 credits)
- ENVR 3040 Environmental Economics (3 credits)

#### SELECT 1 OF THE FOLLOWING COURSES:

- ENVR 3600 Environmental Justice and Sustainability (3 credits)
- ENVR 4210 Environmental Law and Policy (3 credits)

#### COMPLETE 1 OF THE FOLLOWING COURSES (3 CREDITS):

- ENVR 4970 Internship (3 credits)
- ENVR 4990 Thesis (3 credits)

#### SELECT 1 OF THE FOLLOWING COURSES:

- SOC 3001 Social Statistics (3 credits)
- STAT 2610 Applied Statistics (4 credits)

### INDUSTRIAL ECOLOGY EMPHASIS

#### COMPLETE THE FOLLOWING COURSES:

- ENVR 4200 Wastewater Treatment (3 credits)
- ENVR 4220 Sampling and Analysis (4 credits)
- ENVR 4240 Waste Management (4 credits)
- ENVR 4260 Risk Assessment and Auditing (3 credits)
- GEOL 3212 Hydrogeology (3 credits)
- GEOL 3700 Environmental Geophysics (3 credits)

#### SELECT 1 OF THE FOLLOWING COURSES:

- CHEM 1112 General Chemistry II (4 credits)
- CHEM 2212 Principles of Chemistry II (4 credits)

#### SELECT 1 OF THE FOLLOWING COURSES:

- BIOL 1120 General Biology: Evolution And Ecology (3 credits)
- BIOL 1211 Introductory Biology I (4 credits)

#### SELECT 1 OF THE FOLLOWING COURSES:

- ENVR 4050 Geochemistry (3 credits)
- ENVR 4110 Environmental Chemistry (3 credits)
- CHEM 4110 Environmental Chemistry (3 credits)

#### SELECT 1 OF THE FOLLOWING COURSES:

- ENVR 4230 Air Pollution Technology (4 credits)
- ENVR 4500 Environmental Toxicology (4 credits)

#### SELECT 1 OF THE FOLLOWING COURSES:

- MATH 1470 Precalculus (5 credits)
- MATH 2471 Calculus I (5 credits)

#### SELECT 3 OR MORE SEMESTER CREDITS OF ELECTIVES APPROVED IN ADVANCE BY A CEEESS ADVISOR.

### SUGGESTED SEMESTER SCHEDULE FOR ENVIRONMENTAL STUDIES MAJOR, B.S. INDUSTRIAL ECOLOGY EMPHASIS

The following is a list of Environmental Studies Major Courses arranged by year. This schedule is intended to help students plan their courses in an orderly fashion; however, these are only suggestions and this schedule is flexible.

#### Freshman

- BIOL 1120 General Biology: Evolution And Ecology (3 credits)  
or BIOL 1211 Introductory Biology I (4 credits)
- CHEM 1111 General Chemistry I (4 credits)  
or CHEM 2211 Principles of Chemistry I (4 credits)
- CHEM 1112 General Chemistry II (4 credits)  
or CHEM 2212 Principles of Chemistry II (4 credits)
- MATH 1470 Precalculus (5 credits)  
or MATH 2471 Calculus I (5 credits)
- Liberal Education Requirements

#### Sophomore

- ECON 2000 Markets and Resource Allocation (3 credits)
- ENVR 2000 Introduction to Environmental Science (3 credits)
- GEOG 3231 Introduction to Geographic Information Systems (3 credits)
- GEOL 1110 Physical Geology (4 credits)
- Liberal Education Requirements

#### Junior

- ECON 3040 Environmental Economics (3 credits)  
or ENVR 3040 Environmental Economics (3 credits)
- ENVR 3300 Environmental Management and Safety (3 credits)
- ENVR 3880 Environmental Controversies (2 credits)
- ENVR 4050 Geochemistry (3 credits)  
or ENVR 4110 Environmental Chemistry (3 credits)  
or CHEM 4110 Environmental Chemistry (3 credits)
- ENVR 4200 Wastewater Treatment (3 credits)
- ENVR 4220 Sampling and Analysis (4 credits)
- ENVR 4970 Internship (3 credits)  
or ENVR 4990 Thesis (3 credits)
- GEOL 3211 Environmental Hydrology (3 credits)

- STAT 2610 Applied Statistics (4 credits)  
*or* SOC 3001 Social Statistics (3 credits)

#### Senior

- ENVR 4880 Senior Seminar I (1 credit)
- ENVR 4210 Environmental Law and Policy (3 credits)  
*or* ENVR 3600 Environmental Justice and Sustainability (3 credits)
- ENVR 4230 Air Pollution Technology (4 credits)  
*or* ENVR 4500 Environmental Toxicology (4 credits)
- ENVR 4240 Waste Management (4 credits)
- ENVR 4260 Risk Assessment and Auditing (3 credits)
- GEOL 3212 Hydrogeology (3 credits)
- GEOL 3700 Environmental Geophysics (3 credits)