Environmental Programs

Biology/Environmental Programs/Genetics

Student Services Office

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Environmental Programs

Majors offered in:

Environmental Science
Environmental Studies

What is the difference?
## Environmental Programs

<table>
<thead>
<tr>
<th>Environmental Science</th>
<th>Environmental Studies</th>
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<tbody>
<tr>
<td>• Offered as a primary or second major (no minor)</td>
<td>• Offered only as a secondary major or minor</td>
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<tr>
<td>• Emphasis in math and science</td>
<td>• Science requirements are less rigorous</td>
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<tr>
<td>• B.S. degree</td>
<td>• Degree depends upon primary major</td>
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<tr>
<td>• Job opportunities in Environmental Science</td>
<td>• Job opportunities depend upon primary major</td>
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</table>
EMPLOYMENT

What kind of jobs are available after graduation?
Employment Opportunities

Job Titles Held by our Alumni

- Environmental Scientist
- Conservationist
- Corporate Environmental Consultant
- Environmental Lawyer
- Environmental Division Manager
- Geologists/Hydrologists
- Geographic Information Systems Analyst
- Watershed Coordinator
- Agricultural Consultant
- Compliance/Regulation Specialist
- Environmental Health and Safety Specialist
- Environmental Remediation Specialist
- Hazardous Material Specialists
- Natural Resource Manager
- Science/Field Manager
- Soil Scientist
- Water Quality Specialist
Placement Rates

93.3% Placement for each graduating class in the past 5 years (6 months after graduation)

- Government Agency 30%
- Private Industry 30%
- Graduate School 30%
- Other 10%
## Earning Potential

<table>
<thead>
<tr>
<th>Midwest</th>
<th>National</th>
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<tbody>
<tr>
<td>Iowa</td>
<td>California</td>
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<tr>
<td>Illinois</td>
<td>Texas</td>
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<tr>
<td>Minnesota</td>
<td>Florida</td>
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<td>Missouri</td>
<td>New York</td>
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<tr>
<td>Nebraska</td>
<td>North Carolina</td>
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<tr>
<td>Wisconsin</td>
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</table>

- Iowa: $69,790
- Illinois: $78,510
- Minnesota: $83,160
- Missouri: $68,140
- Nebraska: $65,230
- Wisconsin: $72,860
- California: $101,190
- Texas: $80,980
- Florida: $63,420
- New York: $89,590
- North Carolina: $72,430

The projected average beginning salary for a graduate with a bachelor’s degree is $50,969 (collegegrad.com).
Learning Community

- Residence Option
- Larch Hall/Greene House
Science of the Environment and Sustainable Systems
Learning Community

Are you going to be a first year Environmental Science student? Want to live on campus? Join the SESS learning community!

Live with other Environmental Science students in Greene House in Larch Hall as part of the SESS Academic and Residential Learning Community. SESS offers a vibrant living and learning housing option where students learn and live together, and engage in interesting out of class activities pertaining to the environmental sciences and sustainability.

*The SESS Learning Community is open to all entering Environmental Science students regardless of choice of housing.


To learn more, email Kurt Earnest at kearnest@iastate.edu
Learning Community

- Classroom
- ENSCI 110 (Fall)
  - Textbook: The Naked Roommate by Harlan Cohen
- ENSCI 201 (Fall)
- ENSCI 202 (Fall)
- ENSCI 203 (Spring)
- Field Trip
- Group Projects
Curriculum

University requirements
- English 150 & English 250
- Library 160
- International Perspectives
- US Diversity

College of Agriculture and Life Sciences
- Sp Cm 212 or AgEds 311 or COMST 214
- Ethics
- Humanities (3 cr.)
- Social Science (3 cr.)

College of Liberal Arts and Sciences
- Arts & Humanities (12 cr.)
- Social Science (9 cr.)
- LAS 203
- World Language (waived w/3 yrs. Foreign language in H.S.)

*Additional College requirements in mathematics & natural sciences are satisfied by the major requirements
Curriculum requirements for Major

Mathematics & Statistics (7-8 credits)
• One course from: MATH 104, 150, 151, 160, or 165; COM S 106 or 107; D S 201 or 202
• STAT 101 or 104

Physical & Life Sciences (21-23 credits)
• BIOL 211
• CHEM 163 & 163L, or 167 & 177L, or 201 & 201L
• CHEM 231 & 231L, or CHEM 331 & 331L, or BBMB 221, or AGRON 259

Choose 3 of the following:
• AGRON 182 or 282
• GEOL 100 or 201
• MTEOR 206
• BIOL 212
• CHEM 178 & 178L
• PHYS 115, or 131, or 221

Environmental Science (32 credits)
EnSci 110, 201, 202, 203, 250, 251, 312, 318, 319
and 12 credits of EnSci Choice
### Sample 4-year plans

#### Iowa State University 2022-2023

**B.S. DEGREE in ENVIRONMENTAL SCIENCE (CALS)**

<table>
<thead>
<tr>
<th>Semester</th>
<th>FRESHMAN YEAR</th>
<th>Semester 2</th>
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- **Critical Thinking & Comm. - Engl 150**
- **Orientation – EnSci 110**
- **Intro. Environmental Issues – EnSci 221**
- **Env. & Sustain. Issues – EnSci 221**
- **General Chemistry – Chem 177 & 177L**
- **Statistics – Stat 101 or 104**
- **Library Instruction - Lib 160**

14-16 credits per semester; General Education + core math & science

#### Iowa State University 2022-2023

**B.S. DEGREE in ENVIRONMENTAL SCIENCE (LAS)**

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- **Critical Thinking & Comm. - Engl 150**
- **Orientation – EnSci 110**
- **Environmental Issues – EnSci 221**
- **Env. & Sustain. Issues – EnSci 221**
- **General Chemistry – Chem 177 & 177L**
- **Statistics – Stat 101 or 104**
- **Library Instruction - Lib 160**

**Students in all ISU majors must complete 3 credits in U.S. diversity and 3 credits in international perspectives from approved lists. Check the Environmental Science website (http://www.ensci.iastate.edu) for a list of approved courses. Minimum of 120 total credits required.**

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1. Students complete at least 32 credits in Environmental Science including EnSci 110, 201, 202, 208, 250, 251, 381, 382, 384 and 12 additional credits of approved EnSci coursework.
2. Students complete at least 15 credits in humanities and social science including at least 3 credits in each of the following: history, social science, U.S. Diversity, and International Perspectives from approved lists.
3. Students choose two courses from the following Physical or Life Science related courses: Agron 182, Agron 282, Biol 212, Chem 178, Geol 100, Geol 201, Micro 206. Students choose from one of the following Organic Chemistry options: Chem 231 & 231L, Chem 331 & 331L, BMBB 221, or Agron 259.

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**IOWA STATE UNIVERSITY**
Double major

Similar core requirements in math and science and cross-listed courses*

- Agronomy (CALS)
- Biology (CALS and LAS)
- Geology (LAS)
- Meteorology (LAS)
- Natural Resource Ecology and Management (CALS)
  - Animal Ecology
  - Forestry
- Community and Regional Planning (College of Design)

*See ENSCI 402 in course catalog for example
Work Experience

• Available through Environmental Science Faculty research labs
• Opportunities for laboratory or field experience
• See Dick Williams or Allison Manz for an application
Study Abroad Opportunities

1. Identify your region or country of interest
2. Explore the available opportunities
3. Visit the Study Abroad Center and the Study Abroad Fair
4. Determine how you will structure your study abroad experience
   a. Coursework that applies to EnSci major
   b. Coursework that applies to General Education requirements
   c. Independent Study
   d. Travel courses
      a. College of Agriculture and Life Sciences
      b. College of Liberal Arts and Sciences
Lab tour