**Honors Study Requirements**

In order to graduate with honors in the Geography, Geology, and the Environment major, a student must complete (1) all university graduation requirements, (2) all regular requirements for the major, (3) at least 12 hours of Honors work in the major, including at least 3 hours of Honors Independent Study (GEO 299) with the other 9 hours distributed among in-course honors in Geography for Geography majors or Geology for Geology, or Environmental Systems and Science and Sustainability (ESSS) majors, (4) maintain a cumulative GPA of at least 3.30 and at least 3.50 in the major, and (5) apply to the Honors Office during the first month of the graduation semester for Honors Degree designation.

**Admissions Requirements**

Students majoring in the Geography, Geology, and the Environment Department may be admitted to the Departmental Honors Program if they have (1) completed at least 45 hours of college-level courses, (2) a cumulative GPA of 3.30 and at least 3.50 in the major, and (3) are a member of the University Honors Program.

**Honors in the Major**

The Department of Geography, Geology, and the Environment invites qualified Geography, Geology, and Environment (ESSS) majors to distinguish themselves by earning Honors through approved coursework and independent study. Students who enroll in the Honors program will have the opportunity to work closely with selected faculty. Those students who complete the requirements will graduate with Departmental Honors, which will be indicated on their transcript and diploma. Further details about the University Honors program are available at Honors.IllinoisState.edu.

**Honors Study Requirements**

In order to graduate with honors in the Geography, Geology, and the Environment Department, a student must complete (1) all university graduation requirements, (2) all regular requirements for the major, (3) at least 12 hours of Honors work in the major, including at least 3 hours of Honors Independent Study (GEO 299) with the other 9 hours distributed among in-course honors in Geography for Geography majors or Geology for Geology, or Environmental Systems and Science and Sustainability (ESSS) majors, (4) maintain a cumulative GPA of at least 3.30 and at least 3.50 in the major, and (5) apply to the Honors Office during the first month of the graduation semester for Honors Degree designation.

**Geography Programs**

Degrees Offered: B.A., B.S.

**Major in Geography**

Advisor: Jill Freund Thomas
(309) 438-8403
Email: jfhoma@ilstu.edu

Programs must be planned in consultation with the program advisor.

- All Geography majors should consult with the program advisor concerning appropriate elective coursework in related fields. The faculty also recommends that students consider participating in a Study Abroad program as a means of experiencing different cultural settings.
- Elective Geography, Geology, and the Environment courses: a minimum of 21 hours required. 15 hours must be at the 300 level. 1 course (3 hours) must be a regional class (see below)

- Geography regional course options:
  - GEO 235A01, 235A02, 235A04, 265, 306A15, 306A22, 306A26

- Other elective Geography course options:
  - GEO 235A01, 235A02, 235A04, 265 (if not already taken), 304, 305, 306A15, 306A22, 306A26 (if not already taken);
  - 308, 310, 311, 315, 334, 336, 341, 342, 344, 351, 370

- Other elective course options: GEO 361, 380, 382

- Students must earn a grade of C or better in all required courses to be eligible to participate in GEO 398

**Geography Teacher Education Sequence**

Advisor: Jill Freund Thomas
(309) 438-8403
Email: jfhoma@ilstu.edu

- Part of entitlement program leading to teacher licensure with a secondary 6-12 endorsement. Student must plan program in consultation with an advisor

- A 2.75 GPA in the major and overall is required for admission to Student Teaching. Deadlines for admission to Professional Studies and Student Teaching are available from the Cecilia J. Lauby Teacher Education Center.

**Clinical Experiences in Teacher Education**

A variety of clinical (pre-student teaching) experiences, as well as student teaching, are included in the teacher candidates professional preparation. Observations, small and large group instruction, tutoring, field experiences, and student teaching are included in the Clinical Experiences Program. The experiences offered prior to student teaching are integral parts of specific college courses. Clinical experiences are provided in off-campus professional development schools, local schools, campus laboratory schools, agencies, and other approved non-school settings. The Cecilia J. Lauby Teacher Education Center monitors and documents all clinical experiences. Teacher candidates will show verification of having completed clinical experiences commensurate with attaining local, state, and national standards. Teacher candidates must provide their own transportation to clinical experiences sites.

Candidates are required to provide documentation of meeting all State of Illinois, district, and university requirements in regard to criminal background checks BEFORE beginning any clinical experiences. Criminal background checks must remain current as of the last day of the clinical experience. Candidates should consult with clinical course faculty and the Cecilia J. Lauby Teacher Education Center well in advance of clinical experiences to determine specific requirements needed each semester. The approximate number of clinical hours associated with each course offering can be found with the appropriate course description in this Undergraduate Catalog. The following legend relates to the kind of activity related to a specific course.

**Clinical Experiences Legend**

- Observation (including field trips)
- Tutoring one-on-one contact
- Non-instructional assisting
- Small group instruction
- Whole class instruction
- Work with clinic client(s)
Graduate practicum
Professional meeting

Minor in Geography
- 21 hours in Geography required
- Required courses:
  - GEO 100
  - GEO 135 or 142

Geology Programs
Degrees Offered: B.S.

Major in Geology
Advisor: Dr. Dave Malone
(309) 438-2692
Email: dhmalon@ilstu.edu

- Students must complete all core courses with a grade of C or better to be able to enroll in GEO 395

Traditional Sequence
- A 2.50 GPA in the major and overall is required for admission to Professional Studies and a 2.75 GPA for admission to Student Teaching. Deadlines for admission to Professional Studies and Student Teaching are available from the Cecelia J. Lauby Center for Teacher Education.

Earth and Space Science Teacher Education Sequence
Advisor: Paul Meister
(309) 438-7479
Email: pameist@ilstu.edu

- Take 2 courses from the following:
  - AGR 157, 201, 203, 234
  - BSC 196, 202
  - GEO 207, 211, 276
  - PHY 207

Minor in Geology
- 22 hours in Geology required
- Required courses: GEO 102, 202 and 203

Major in Environmental Systems and Science and Sustainability (ESSS)
Degrees Offered: B.S.
Advisor: Jill Freund Thomas
(309) 438-8403
jthoma@ilstu.edu

- Students are encouraged to pursue a minor in Biological Sciences or Chemistry or Physics or Mathematics. ESSS students may not minor in the existing Environmental Studies Minor program.

Minor in Environmental Studies
The Minor in Environmental Studies is a multidisciplinary program that is available to students in any undergraduate major. The mission of the Environmental Studies Minor Program is to increase awareness of the interrelationships that exist between humans and the natural environment.

All Courses:
https://coursefinder.illinoisstate.edu/directory/geo/

https://coursefinder.illinoisstate.edu/directory/geo/
MAJOR IN GEOGRAPHY  
(B.A., B.S.)

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 110 Communication as Critical Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 or ENG 101A10 Composition as Critical Inquiry</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics (1 course required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</table>

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
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</table>

United States Traditions (1 course required)
Please see major requirements for United States traditions options

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<tr>
<th>Course</th>
<th>Credit Hours</th>
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Individuals & Civic Life (1 course required)

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<tr>
<th>Course</th>
<th>Credit Hours</th>
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</table>

Fine Arts (1 course/3 credit hours required)***

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<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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Humanities (1 course required)***

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<tr>
<th>Course</th>
<th>Credit Hours</th>
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</table>

Language in the Humanities (1 course required)***

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</table>

Quantitative Reasoning for B.S. or LAN 115 for B.A. (1 course required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 138 Maps &amp; Geographic Reasoning</td>
<td>3</td>
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</tbody>
</table>

Science, Math, & Technology (1 course required)

<table>
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<tr>
<th>Course</th>
<th>Credit Hours</th>
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</table>

Social Sciences (1 course required)***
Exempt for Geography majors

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tr>
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</table>

Additional Graduation Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>/120 minimum total credit hours</td>
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</tr>
<tr>
<td>/42 minimum senior college hours</td>
<td></td>
</tr>
<tr>
<td>College of Arts &amp; Sciences language requirement</td>
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</tr>
</tbody>
</table>

AMALI requirement

***certain courses in General Education fulfill the AMALI requirement. Please see major requirements for AMALI options. See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
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</tbody>
</table>

B.S. Science, Math, & Technology or B.A. LAN 115 (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
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<td>__</td>
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</table>

Major (50 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 100</td>
<td>4</td>
<td>Introduction to Environmental Systems</td>
</tr>
<tr>
<td>GEO 138</td>
<td>3</td>
<td>Maps &amp; Geographic Reasoning (P: MAT 120, 130, or 145)</td>
</tr>
<tr>
<td>GEO 204</td>
<td>1</td>
<td>Career Preparation in Geography I</td>
</tr>
<tr>
<td>GEO 205</td>
<td>3</td>
<td>Environment, Resources, and Sustainability</td>
</tr>
<tr>
<td>GEO 238</td>
<td>3</td>
<td>Statistics for Geographers I</td>
</tr>
<tr>
<td>GEO 292</td>
<td>1</td>
<td>Career Preparation in Geography II (P: GEO 204; 45+ earned hours)</td>
</tr>
<tr>
<td>GEO 300</td>
<td>3</td>
<td>Cartography</td>
</tr>
<tr>
<td>GEO 303</td>
<td>4</td>
<td>Introduction to Geographic Information Systems (P: GEO 138 or 30+ earned hours)</td>
</tr>
<tr>
<td>GEO 398A01</td>
<td>4</td>
<td>Professional Practice: Internship in Geography (P: 75+ earned hours; 2.2 GPA)</td>
</tr>
</tbody>
</table>

Take one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>GEO 135</td>
<td>3</td>
</tr>
<tr>
<td>GEO 142</td>
<td>3</td>
</tr>
</tbody>
</table>

Geography majors must complete a minimum of 21 elective hours (specific requirements below), including at least 15 hours at the 300-level. Please consult with your academic advisor.

Take one regional geography elective:

(GEO 235A01, 235A02, 235A04, 265, 306A15, 306A22, 306A26)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
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</table>

Take six (18 credit hours) additional Geography electives:
(Regional geography courses listed above if not used for the regional geography elective; GEO 304, 305, 308, 310, 311, 315, 334, 336, 341, 342, 344, 351, 370; approved geology courses: GEO 361, 380, 382)

<table>
<thead>
<tr>
<th>Course</th>
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</table>

Geography-Geology Courses:
[https://coursefinder.illinoisstate.edu/directory/geo/](https://coursefinder.illinoisstate.edu/directory/geo/)

All Courses:
[https://coursefinder.illinoisstate.edu/directory/](https://coursefinder.illinoisstate.edu/directory/)
**MAJOR IN GEOGRAPHY**  
(B.A., B.S.) - Transfer Students

**Illinois Articulation Initiative (min. 37 credit hours)**  
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

**Communication and Composition (3 courses required)**  
A grade of C or better required in ENG 101 and 145 or equivalents

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2 900 COM 110 Communication as Critical Inquiry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1 901 ENG 145 Writing in the Academic Disciplines</td>
<td>3</td>
<td></td>
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</tbody>
</table>

**Mathematics (1 course required)**  
Please see major requirements for mathematics options

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
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<tbody>
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</table>

**Physical & Life Sciences (2 courses/7-8 hours required)**  
Students must complete 1 life science and 1 physical science course; at least one course must have a lab.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1 909 GEO 100 Earth Systems Science</td>
<td>4</td>
<td></td>
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</tbody>
</table>

**Humanities & Fine Arts (3 courses required)**  
At least one humanities and 1 fine arts course required

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
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</tbody>
</table>

**Social & Behavioral Sciences (3 courses required)**  
Two different disciplines must be represented

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4 900N GEO 135 World Geography</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Graduation Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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<tr>
<td>/120 minimum total credit hours</td>
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<td></td>
</tr>
<tr>
<td>AMALI requirement</td>
<td></td>
</tr>
</tbody>
</table>

See major requirements for AMALI options.  
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

**B.S. Science, Math, & Technology or B.A. LAN 115 (1 course required)**  
See the B.S. — SMT Requirement section of the catalog or the Course Finder website for a list of courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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**Major (50 credit hours)**

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<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
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<tbody>
<tr>
<td>GEO 100 Introduction to Environmental Systems</td>
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<td></td>
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<tr>
<td>GEO 138 Maps &amp; Geographic Reasoning (P: MAT 120, 130, or 145)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 204 Career Preparation in Geography I</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GEO 205 Environment, Resources, and Sustainability</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 238 Statistics for Geographers I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 292 Career Preparation in Geography II (P: GEO 204; 45+ earned hours)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>GEO 300 Cartography</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 303 Introduction to Geographic Information Systems (P: GEO 138 or 30+ earned hours)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEO 398A01 Professional Practice: Internship in Geography (P: 75+ earned hours; 2.2 GPA)</td>
<td>4</td>
<td></td>
</tr>
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</table>

**Take one of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 135 World Geography</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 142 Human Geography</td>
<td>3</td>
<td></td>
</tr>
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Geography majors must complete a minimum of 21 elective hours (specific requirements below), including at least 15 hours at the 300-level. Please consult with your academic advisor.

**Take one regional geography elective:**

(GEO 235A01, 235A02, 235A04, 265, 306A15, 306A22, 306A26)

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**Take six (18 credit hours) additional Geography electives:**

(Regional geography courses listed above if not used for the regional geography elective; GEO 304, 305, 308, 310, 311, 315, 334, 336, 341, 342, 344, 351, 370; approved geology courses: GEO 361, 380, 382)

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**Geography-Geology Courses:**

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**All Courses:**

[https://coursefinder.illinoisstate.edu/directory/](https://coursefinder.illinoisstate.edu/directory/)
MAJOR IN GEOGRAPHY

GEOGRAPHY TEACHER EDUCATION SEQUENCE
(B.A., B.S.)

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
____ 3 COM 110 Communication as Critical Inquiry
____ 3 ENG 101 or ENG 101A10 Composition as Critical Inquiry

Mathematics (1 course required)

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.

United States Traditions (1 course required)
____ 3 GEO 142 Human Geography

Individuals & Civic Life (1 course required)
____ 3 POL 101 Citizens & Governance
OR POL 106 U.S. Government & Civic Practices

Fine Arts (1 course/3 credit hours required)**

Humanities (1 course required)**

Language in the Humanities (1 course required)**

Quantitative Reasoning for B.S. or LAN 115 for B.A. (1 course required)
____ 3 GEO 138 Maps & Geographic Reasoning

Science, Math, & Technology (1 course required)

Social Sciences (1 course required)**
Exempt for Geography majors

Additional Graduation Requirements
____/120 minimum total credit hours
____/42 minimum senior college hours
____ College of Arts & Sciences language requirement

AMALI requirement
**Certain courses in General Education fulfill the AMALI requirement. See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.
____ 3 GEO 135 World Geography

B.S. Science, Math, & Technology or B.A. LAN 115 (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.

Major (82 credit hours)

GEO (40 credit hours):
____ 4 GEO 100 Introduction to Environmental Systems
____ 3 GEO 135 World Geography
____ 3 GEO 138 Maps & Geographic Reasoning (P: MAT 120, 130, or 145)
____ 3 GEO 142 Human Geography
____ 1 GEO 204 Career Preparation in Geography I
____ 3 GEO 205 Environment, Resources, and Sustainability
____ 3 GEO 261 Teaching Social Science in a Geographical Context (P: 45+ earned hours)
____ 1 GEO 292 Career Preparation in Geography II (P: GEO 204; 45+ earned hours)
____ 3 GEO 300 Cartography
____ 4 GEO 303 Introduction to Geographic Information Systems (P: GEO 138 or 30+ earned hours)
____ 3 GEO 307# Teaching Geography/Earth Science (P: C or better in TCH 216; 8+ earned hours of Geography or Geology)

Take one regional geography elective:
(GEO 235A01, 235A02, 235A04, 265, 306A15, 306A22, 306A26)

Take two (6 credit hours) additional 300-level Geography electives:
(GEO 304, 305, 308, 310, 311, 315, 334, 336, 341, 342, 344, 351, 370; GEO 306A15, 306A22, 306A26 [if not used to fulfill regional geography elective])

Required courses outside of GEO (min. 16 credit hours):
____ 4 ECO 105 Principles of Economics
____ 3 SOC 106 Introduction to Sociology

Take one of the following courses:
____ 3 POL 101 Citizens & Governance
____ 3 POL 106 U.S. Government & Civic Practices

Take one of the following courses:
____ 3 HIS 101 Western Civilization to 1500
____ 3 HIS 102 Modern Western Civilization

Take one of the following courses:
____ 3 HIS 135 History of the United States to 1865
____ 3 HIS 136 History of the United States since 1865

Professional Education requirements (26 credit hours):
____ 3 PSY 215 Educational Psychology (P: PSY 110 or 111)
____ 2 TCH 212 The Teaching Profession in Secondary Schools (P: 45+ earned hours; 2.5 major & cum. GPA; ENG 101, COM 110)
____ 3 TCH 216 Principles & Practices for Teaching & Learning in Secondary Schools (P: TCH 212; 2.5 major & cum. GPA)
____ 3 TCH 219 Integrating Multiple Literacies & Technology Across the Secondary Curriculum (P: TCH 212, 216; 2.5 major & cum. GPA)
____ 12 STT 399A18 Student Teaching in Geography

Take one of the following courses (P: 45+ earned hours):
____ 3 EAF 228 Social Foundations
____ 3 EAF 231 Introduction to Philosophy of Education
____ 3 EAF 235 Historical Foundations

‡ Admission to Professional Studies required

Geography-Geology Courses:
https://coursefinder.illinoisstate.edu/directory/geo/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN GEOGRAPHY

GEOGRAPHY TEACHER EDUCATION SEQUENCE
(B.A., B.S.) - Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents

| 3 | C2 900  | COM 110 Communication as Critical Inquiry |
| 3 | C1 900  | ENG 101 or ENG 101A10 Composition as Critical Inquiry |
| 3 | C1 901  | ENG 145 Writing in the Academic Disciplines |

Mathematics (1 course required)
Please see major requirements for mathematics options

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.

| 4 | P1 909  | GEO 100 Earth Systems Science |

Humanities & Fine Arts (3 courses required)
At least one humanities and 1 fine arts course required

| 3 | H2 904  | HIS 135 or H2 905 HIS 136 |
| 3 | H2 901  | HIS 101 or H2 902 HIS 102 |

Social & Behavioral Sciences (3 courses required)
Two different disciplines must be represented

| 3 | S4 900N | GEO 135 World Geography |
| 3 | S7 900  | SOC 106 Intro to Sociology |
| 3 | S6 900  | PSY 110 Fundamentals of Psychology |

Additional Graduation Requirements

/120 minimum total credit hours
/42 minimum senior college hours
College of Arts & Sciences language requirement
AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

| 3 | GEO 135 World Geography |

B.S. Science, Math, & Technology or B.A. LAN 115 (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.

Major (82 credit hours)

GEO (40 credit hours):

| 4 | GEO 100 Introduction to Environmental Systems |
| 3 | GEO 135 World Geography |
| 3 | GEO 138 Maps & Geographic Reasoning (P: MAT 120, 130, or 145) |
| 3 | GEO 142 Human Geography |
| 1 | GEO 204 Career Preparation in Geography I |
| 3 | GEO 205 Environment, Resources, and Sustainability |
| 3 | GEO 261 Teaching Social Science in a Geographical Context (P: 45+ earned hours) |
| 1 | GEO 292 Career Preparation in Geography II (P: GEO 204; 45+ earned hours) |
| 3 | GEO 300 Cartography |
| 4 | GEO 303 Introduction to Geographic Information Systems (P: GEO 138 or 30+ earned hours) |
| 3 | GEO 307 Teaching Geography/Earth Science (P: C or better in TCH 216; 8+ earned hours of Geography or Geology) |

Take one regional geography elective:
(GEO 235A01, 235A02, 235A04, 265, 306A15, 306A22, 306A26)

Take two (6 credit hours) additional 300-level Geography electives:
(GEO 304, 305, 308, 310, 311, 315, 334, 336, 341, 342, 344, 351, 370; GEO 306A15, 306A22, 306A26 if not used to fulfill regional geography elective)

Required courses outside of GEO (16 credit hours):

| 4 | ECO 105 Principles of Economics |
| 3 | SOC 106 Introduction to Sociology |

Take one of the following courses:

| 3 | POL 101 Citizens & Governance |
| 3 | POL 106 U.S. Government & Civic Practices |

Take one of the following courses:

| 3 | HIS 101 Western Civilization to 1500 |
| 3 | HIS 102 Modern Western Civilization |

Take one of the following courses:

| 3 | HIS 135 History of the United States to 1865 |
| 3 | HIS 136 History of the United States since 1865 |

Professional Education requirements (26 credit hours):

| 3 | PSY 215 Educational Psychology (P: PSY 110 or 111) |
| 2 | TCH 212 The Teaching Profession in Secondary Schools (P: 45+ earned hours; 2.5 major & cum. GPA; ENG 101, COM 110) |
| 3 | TCH 216 Principles & Practices for Teaching & Learning in Secondary Schools (P: TCH 212; 2.5 major & cum. GPA) |
| 3 | TCH 219 Integrating Multiple Literacies & Technology Across the Secondary Curriculum (P: TCH 212, 216; 2.5 major & cum. GPA) |
| 12 | STT 399A18 Student Teaching in Geography |

Take one of the following courses (P: 45+ earned hours):

| 3 | EAF 228 Social Foundations |
| 3 | EAF 231 Introduction to Philosophy of Education |
| 3 | EAF 235 Historical Foundations |

‡ Admission to Professional Studies required

Geography-Geology Courses:
https://coursefinder.illinoisstate.edu/directory/geo/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN GEOLOGY
TRADITIONAL SEQUENCE
(B.S.)

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 110</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 or ENG 101A10</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics (1 course required)
<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 145</td>
<td>4</td>
</tr>
</tbody>
</table>

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 140</td>
<td>4</td>
</tr>
<tr>
<td>PHY 108 or PHY 110</td>
<td>4-5</td>
</tr>
</tbody>
</table>

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning (1 course required)
<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 145</td>
<td>4</td>
</tr>
</tbody>
</table>

Science, Math, & Technology (1 course required)
Exempt for General Geology majors

Social Sciences (1 course required)***

Additional Graduation Requirements
<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>120</td>
</tr>
<tr>
<td>Senior</td>
<td>42</td>
</tr>
</tbody>
</table>

College of Arts & Sciences language requirement

AMALI requirement
***certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.

Major (64-66 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 202</td>
<td>3</td>
</tr>
<tr>
<td>GEO 203</td>
<td>3</td>
</tr>
<tr>
<td>GEO 280</td>
<td>4</td>
</tr>
<tr>
<td>GEO 285</td>
<td>4</td>
</tr>
<tr>
<td>GEO 290</td>
<td>4</td>
</tr>
<tr>
<td>GEO 295</td>
<td>3</td>
</tr>
<tr>
<td>GEO 296</td>
<td>3</td>
</tr>
<tr>
<td>CHE 140</td>
<td>6</td>
</tr>
<tr>
<td>CHE 141</td>
<td>4</td>
</tr>
<tr>
<td>MAT 145</td>
<td>4</td>
</tr>
<tr>
<td>MAT 146</td>
<td>4</td>
</tr>
</tbody>
</table>

Take one additional Geology applied quantitative elective:
(GEO 360, 361, 362, 363, 364)

Choose one of the following options:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 108 or PHY 110</td>
<td>5/5</td>
</tr>
<tr>
<td>PHY 110 or PHY 111</td>
<td>4/4</td>
</tr>
</tbody>
</table>

Take 7 credit hours of additional Geology electives:

Geography-Geology Courses:
https://coursefinder.illinoisstate.edu/directory/geo/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN GEOLOGY
TRADITIONAL SEQUENCE
(B.S.) - Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
To be eligible for IAI, at least one transfer course must have been articulated
to an IAI core requirement. Refer to the Undergraduate Catalog for a
complete list of IAI courses and policies.

Communication and Composition (3 courses required)
A grade of C or better required in ENG 101 and 145 or equivalents
____ _ 3 C2 900 COM 110 Communication as Critical Inquiry
____ _ 3 C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry
____ _ 3 C1 901 ENG 145 Writing in the Academic Disciplines

Mathematics (1 course required)
Please see major requirements for mathematics options
____ _ 4 M1 900-1 MAT 145 Calculus I or M1 900-2 MAT 146 Calculus II

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least
1 course must have a lab.
____ _ 4 P1 902L CHE 140 General Chemistry I
or P1 900L PHY 108 College Physics I

____ __ __ ______________________________________

Humanities & Fine Arts (3 courses required)
At least one humanities and 1 fine arts course required

____ __ __ ______________________________________

____ __ __ ______________________________________

Social & Behavioral Sciences (3 courses required)
Two different disciplines must be represented

____ __ __ ______________________________________

____ __ __ ______________________________________

Additional Graduation Requirements
____ /120 minimum total credit hours
____ /42 minimum senior college hours
____ College of Arts & Sciences language requirement

AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder
website for a list of courses.

____ __ ______________________________________

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder
website for a list of courses.
____ __ GEO 202 Evolution of Earth

Major (64-66 credit hours)
____ 3 GEO 202 Evolution of Earth
____ 3 GEO 203 Minerals, Rocks, Fossils, & Maps
____ 4 GEO 280 Mineralogy (P: GEO 203; CHE 140)
____ 4 GEO 285 Igneous & Metamorphic Petrology (P: GEO 280)
____ 4 GEO 290 Structural Geology (P: GEO 203)
____ 3 GEO 295 Sedimentology (P: GEO 203)
____ 3 GEO 296 Stratigraphy (P: GEO 295)
____ 6 GEO 395 Field geology (P: C or better in GEO 280, 285, 290, 295,
and 296)
____ 4 CHE 140 General Chemistry I (P: C or better in MAT 119; or C or
better in MAT 120 or 144 or 145 or conc. reg.)
____ 4 CHE 141 General Chemistry II (P: CHE 140)
____ 4 MAT 145 Calculus I (P: C or better in MAT 144 or placement)
____ 4 MAT 146 Calculus II (P: C or better in MAT 145)

Take one additional Geology applied quantitative elective:
(GEO 360, 361, 362, 363, 364)

____ __ ______________________________________

Choose one of the following options:
____ 5/5 PHY 108 College Physics I AND PHY 109 College Physics II (P:
PHY 108 or 110)
____ 4/4 PHY 110 Physics for Science & Engineering I (P: MAT 145 or
conc. reg.) AND PHY 111 Physics for Science & Engineering II
(P: PHY 110 and MAT 146 or conc. reg.)

Take 7 credit hours of additional Geology electives:

____ __ ______________________________________

Geography-Geology Courses:
https://coursefinder.illinoisstate.edu/directory/geo/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
MAJOR IN GEOLOGY

EARTH AND SPACE SCIENCE TEACHER EDUCATION SEQUENCE

(B.S.)

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
_____ 3 COM 110 Communication as Critical Inquiry
_____ 3 ENG 101 or ENG 101A10 Composition as Critical Inquiry

Mathematics (1 course required)

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.
_____ 4 BSC 196 Biological Diversity
_____ 5 PHY 108 College Physics I

United States Traditions (1 course required)

Individuals & Civic Life (1 course required)

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning (1 course required)

Science, Math, & Technology (1 course required)
Exempt for General Geology majors

Social Sciences (1 course required)***

Additional Graduation Requirements

___/120 minimum total credit hours
___/42 minimum senior college hours
___ College of Arts & Sciences language requirement

AMALI requirement
***Certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
_____ 3 GEO 202 Evolution of Earth

Major (83 credit hours)

GEO requirements (29 credit hours)
___ 3 GEO 202 Evolution of Earth
___ 3 GEO 203 Minerals, Rocks, Fossils, & Maps
___ 3 GEO 211 Earth’s Dynamic Weather
___ 4 GEO 280 Mineralogy (P: GEO 203; CHE 140)
___ 4 GEO 290 Structural Geology (P: GEO 203)
___ 3 GEO 295 Sedimentology (P: GEO 203)
___ 3 GEO 307 Teaching Geography/Earth Science (P: C or better in TCH 216; 8+ earned hours of Geography or Geology)

Take 6 credit hours of additional senior college Geology electives:

Required courses outside of GEO (28 credit hours)
___ 4 BSC 196 Biological Diversity
___ 4 BSC 197 Molecular & Cellular Basis of Life
___ 4 CHE 110 Fundamentals of Chemistry
___ 5 PHY 108 College Physics I
___ 5 PHY 109 College Physics II (P: PHY 108 or 110)
___ 3 PHY 208 Astronomy & Space Science (P: MAT 113, 120, 130, or 145; PHY 102, 105, 108, or 110)
___ 3 TCH 311 Teaching High School Physics (P: 18 hours in Physics; PHY 310; C or better in TCH 216 or conc. reg.)

Professional Education requirements (26 credit hours)
___ 3 PSY 215 Educational Psychology (P: PSY 110 or 111)
___ 2 TCH 212 The Teaching Profession in Secondary Schools (P: 45+ earned hours; 2.5 major & cum. GPA; ENG 101, COM 110)
___ 3 TCH 216 Principles & Practices for Teaching & Learning in Secondary Schools (P: TCH 212; 2.5 major & cum. GPA)
___ 3 TCH 219 Integrating Multiple Literacies & Technology Across the Secondary Curriculum (P: TCH 212, 216; 2.5 major & cum. GPA)
___ 12 STT 399A19 Student Teaching in Earth & Space

Take one of the following courses (P: 45+ earned hours):
___ 3 EAF 228 Social Foundations
___ 3 EAF 231 Introduction to Philosophy of Education
___ 3 EAF 235 Historical Foundations

‡ Admission to Professional Studies required

Geography-Geology Courses:
https://coursefinder.illinoisstate.edu/directory/geo/

All Courses:
https://coursefinder.illinoisstate.edu/directory/
### Major in Geography

#### Earth and Space Science Teacher Education Sequence (B.S.)

**Transfer Students**

**Illinois Articulation Initiative (min. 37 credit hours)**

To be eligible for IAI, at least one transfer course must have been articulated to an IAI core requirement. Refer to the Undergraduate Catalog for a complete list of IAI courses and policies.

**Communication and Composition (3 courses required)**

- A grade of C or better required in ENG 101 and 145 or equivalents
  - 3 C2 900 COM 110 Communication as Critical Inquiry
  - 3 C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry
  - 3 C1 901 ENG 145 Writing in the Academic Disciplines

**Mathematics (1 course required)**

Please see major requirements for mathematics options

**Physical & Life Sciences (2 courses/7-8 hours required)**

Students must complete 1 life science and 1 physical science course; at least one course must have a lab.

- 4 L1 901L BSC 196 Biological Diversity or BSC 197 Molecular/Cellular Basis of Life
- 4 P1 902 CHE 110 Fundamentals of Chemistry or P1 900L PHY 108 College Physics I

**Humanities & Fine Arts (3 courses required)**

At least one humanities and 1 fine arts course required

**Social & Behavioral Sciences (3 courses required)**

Two different disciplines must be represented

- 3 S6 900 PSY 110 Fund of Psychology

**Additional Graduation Requirements**

- /120 minimum total credit hours
- /42 minimum senior college hours
- **College of Arts & Sciences language requirement**

**AMALI requirement**

See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

**B.S. Science, Math, & Technology (1 course required)**

See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.

### Major (83 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 202 Evolution of Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEO 203 Minerals, Rocks, Fossils, &amp; Maps</td>
<td>3</td>
</tr>
<tr>
<td>GEO 211 Earth’s Dynamic Weather</td>
<td>3</td>
</tr>
<tr>
<td>GEO 280 Mineralogy (P: GEO 203; CHE 140)</td>
<td>4</td>
</tr>
<tr>
<td>GEO 290 Structural Geology (P: GEO 203)</td>
<td>4</td>
</tr>
<tr>
<td>GEO 295 Sedimentology (P: GEO 203)</td>
<td>3</td>
</tr>
<tr>
<td>GEO 307 Teaching Geography/Earth Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Take 6 credit hours of additional senior college Geology electives:

**Required courses outside of GEO (28 credit hours)**

- 4 BSC 196 Biological Diversity
- 4 BSC 197 Molecular & Cellular Basis of Life
- 4 CHE 110 Fundamentals of Chemistry
- 5 PHY 108 College Physics I
- 5 PHY 109 College Physics II (P: PHY 108 or 110)
- 3 PHY 208 Astronomy & Space Science (P: MAT 113, 120, 130, or 145; PHY 102, 105, 108, or 110)
- 3 TCH 311 Teaching High School Physics (P: 18 hours in Physics; PHY 310; C or better in TCH 216 or conc. reg.)

**Professional Education requirements (26 credit hours)**

- 3 PSY 215 Educational Psychology (P: PSY 110 or 111)
- 2 TCH 212 The Teaching Profession in Secondary Schools (P: 45+ earned hours; 2.5 major & cum. GPA; ENG 101, COM 110)
- 3 TCH 216 Principles & Practices for Teaching & Learning in Secondary Schools (P: TCH 212; 2.5 major & cum. GPA)
- 3 TCH 219 Integrating Multiple Literacies & Technology Across the Secondary Curriculum (P: TCH 212, 216; 2.5 major & cum. GPA)
- 12 STT 399A19 Student Teaching in Earth & Space

Take one of the following courses (P: 45+ earned hours):

- 3 EAF 228 Social Foundations
- 3 EAF 231 Introduction to Philosophy of Education
- 3 EAF 235 Historical Foundations

**Geography-Geology Courses:**

[https://coursefinder.illinoisstate.edu/directory/geo/](https://coursefinder.illinoisstate.edu/directory/geo/)

**All Courses:**

[https://coursefinder.illinoisstate.edu/directory/](https://coursefinder.illinoisstate.edu/directory/)
MAJOR IN ENVIRONMENTAL SYSTEMS SCIENCE AND SUSTAINABILITY (B.S.)

General Education (39 credit hours)
Refer to the General Education section of the Undergraduate Catalog for a complete list of General Education requirements and courses.

Communication and Composition (2 courses required)
_____ 3 COM 110 Communication as Critical Inquiry
_____ 3 ENG 101 or ENG 101A10 Composition as Critical Inquiry

Mathematics (1 course required)
_____ 4 MAT 145 Calculus I

Natural Science/Natural Science Alternatives (2 courses required)
Students must complete 1 course from 2 different sciences.
_____ 4 BSC 196 Biological Diversity
_____ 4 CHE 140 General Chemistry I

United States Traditions (1 course required)
_____ 3 GEO 142 Human Geography

Individuals & Civic Life (1 course required)
_____ 3 GEO 202 Evolution of Earth

Fine Arts (1 course/3 credit hours required)***

Humanities (1 course required)***

Language in the Humanities (1 course required)***

Quantitative Reasoning (1 course required)
ESSS majors are exempt from this category.

Science, Math, & Technology (1 course required)

Social Sciences (1 course required)***
_____ 3 GEO 135 World Geography

Additional Graduation Requirements
_____/120 minimum total credit hours
_____/42 minimum senior college hours
_____ College of Arts & Sciences language requirement

AMALI requirement
***certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
_____ 3 GEO 202 Evolution of Earth

Geography-Geology Courses:
https://coursefinder.illinoisstate.edu/directory/geo/

All Courses:
https://coursefinder.illinoisstate.edu/directory/

Major (81 credit hours)
_____ 4 BSC 196 Biological Diversity
_____ 4 BSC 197 Molecular And Cellular Basis Of Life
_____ 4 BSC 201 Ecology (P: BSC 196 and 197)
_____ 4 CHE 140 General Chemistry I (P: Grade of C or better in MAT 119; or grade of C or better or concurrent registration in MAT 118 or 120 or 144 or 145; or consent of the Department of Chemistry)
_____ 3 ECO 101 Principles Of Microeconomics
_____ 4 GEO 100 Introduction to Environmental Systems
_____ 3 GEO 202 Evolution Of The Earth
_____ 3 GEO 205 Environment, Resources, and Sustainability
_____ 3 GEO 238 Statistics for Geographers I
_____ 1 GEO 293 Career Preparation in Environmental Systems (P: 75 hours or consent of instructor)
_____ 4 GEO 303 Introduction to Geographic Information Systems (P: Min. 30 hrs or GEO 138 or consent of instructor)
_____ 4 GEO 398A02 Professional Practice: Internship in Environmental Systems
_____ 4 MAT 145 Calculus I
_____ 3 PHI 236 Values And The Environment
_____ 3 POL 106 United States Government And Civic Practices

Take 1 of the following courses:
_____ 3 GEO 135 World Geography
_____ 3 GEO 142 Human Geography

Take 1 of the following courses:
_____ 4 PHY 105 Fundamentals Of Physics
_____ 5 PHY 108 College Physics I (P: 2 years of high school algebra or equivalent)
_____ 4 PHY 110 Physics For Science And Engineering I (P: MAT 145 or concurrent registration)

Take 2 of the following courses:
_____ 4 CHE 141 General Chemistry II (P: CHE 140)
_____ 4/4 IT 165 Computer Programming For Scientists (P: Grade of C or better in MAT 145) or IT 166 Python Programming for Science and Data Analysis (P: Grade of C or better in MAT 121 or 145 or GEO 238 or consent of the school advisor)
_____ 4 MAT 146 Calculus II
_____ 5/4 PHY 109 College Physics II (P: PHY 108 or 110) or PHY 111 Physics for Science & Engineering II (P: PHY 110; MAT 146 or concurrent registration)

Complete 5 courses (min. 15 hrs) from one single track below:

Track A—Generalist Track:
2 courses from: BSC 202, 211, 223, 280, 311, 375, 376, CHE 215 (216 lab may also be taken), 220, 360 (361 lab may also be taken), 362 (363 lab may also be taken), GEO 276, 306, 314, 318, 341, 344, 360, 361, 380, 382, PHY 318 or CHE 318
2 courses from: ANT 273, 375, COM 274, ECO 236, 255, GEO 317, 334, PHI 250, 310, POL 236, 252, SOC 241, 302, 330
1 course from GEO 304, 305, 308, IT 165 or 166

Track B—Water Resources:
5 courses BSC 311, 375, 376, GEO 276, 314, 317, 318, 319, 360, 361

Track C—Environmental Systems Analysis:
IT 165 or 166
4 courses from: BSC 311, CHE 215 (216 lab may also be taken), 360 (361 lab may also be taken), 362 (363 lab may also be taken), GEO 304, 305, 306, 308, 314, 319, PHY 318 or CHE 318

Track D—Nature and Society:
1 course from: ENG 145A13, COM 268, 274
4 courses from: ANT 273, 375, ECO 236, 255, GEO 317, 334, PHI 250, 310, PHY 207, POL 236, 252, SOC 241, 302, 330
MAJOR IN ENVIRONMENTAL SYSTEMS SCIENCE
AND SUSTAINABILITY
(B.S.) - Transfer Students

Illinois Articulation Initiative (min. 37 credit hours)
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___ 3 C1 900 ENG 101 or ENG 101A10 Composition as Critical Inquiry
___ 3 C1 901 ENG 145 Writing in the Academic Disciplines

Mathematics (1 course required)
Please see major requirements for mathematics options
___ 4 M1 900-1 MAT 145 Calculus I or M1 900-2 MAT 146 Calculus II

Physical & Life Sciences (2 courses/7-8 hours required)
Students must complete 1 life science and 1 physical science course; at least 1 course must have a lab.
___ 4 P1 902L CHE 140 General Chemistry I
or P1 900L PHY 108 College Physics I

Humanities & Fine Arts (3 courses required)
At least 1 humanities and 1 fine arts course required
___ —
___ —
___ —

Social & Behavioral Sciences (3 courses required)
2 different disciplines must be represented
___ 3 S4 900N GEO 135 World Geography
___ —
___ —

Additional Graduation Requirements
___/120 minimum total credit hours
___/42 minimum senior college hours
___ College of Arts & Sciences language requirement

AMALI requirement
***certain courses in General Education fulfill the AMALI requirement
See the AMALI Requirement section of the catalog or the Course Finder website for a list of courses.
___ —

B.S. Science, Math, & Technology (1 course required)
See the B.S.—SMT Requirement section of the catalog or the Course Finder website for a list of courses.
___ 3 GEO 202 Evolution of Earth

Geography-Geology Courses:
https://coursefinder.illinoisstate.edu/directory/geo/

All Courses:
https://coursefinder.illinoisstate.edu/directory/