Class Schedule - Spring 2019

Earth, Society, and Environment

School of Earth, Society, and Environment
Director of School: Robert Rauber
3086 Natural History Building: 1301 W. Green Street, Urbana, IL 61801
Phone: (217) 244-4064
earth.illinois.edu/students

ESE 103  Earth's Physical Systems  credit: 4 hours.
Same as GEOG 103. See GEOG 103.
This course satisfies the General Education Criteria for a:
Nat Sci & Tech - Phys Sciences

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<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
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<tbody>
<tr>
<td>54793</td>
<td>Laboratory-Discussion</td>
<td>AB1</td>
<td>02:00 PM - 03:50 PM</td>
<td>R</td>
<td>137C - Davenport Hall</td>
<td>Fojtik, A</td>
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<tr>
<td>54794</td>
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<td>AB2</td>
<td>10:00 AM - 11:50 AM</td>
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Nat Sci & Tech - Phys Sciences course.

ESE 104  Geology of the National Parks  credit: 3 hours.
Same as GEOL 104. See GEOL 104.
This course satisfies the General Education Criteria for a:
Nat Sci & Tech - Phys Sciences

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<tr>
<th>CRN</th>
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<th>Time</th>
<th>Days</th>
<th>Location</th>
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<tr>
<td>63300</td>
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<td>A</td>
<td>ARRANGED -</td>
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<td>-</td>
<td>Chang, C Delucia, M Pettijohn, J</td>
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Nat Sci & Tech - Phys Sciences course.
Students taking ESE 104 online do not need to register for a lab section.

ESE 106  Geographies of Globalization  credit: 3 hours.
Same as GEOG 106. See GEOG 106.

This course satisfies the General Education Criteria for a:
Cultural Studies - Non-West
Social & Beh Sci - Soc Sci

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<td>58856</td>
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<td>1024 - Chemistry Annex</td>
<td>Liu, D Roberts, N</td>
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ESE 111  Emergence of Life  credit: 3 hours.

Same as GEOL 111. See GEOL 111.

This course satisfies the General Education Criteria for a:
Nat Sci & Tech - Life Sciences

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<td>Chen, M Cole, T Li, Y</td>
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Nat Sci & Tech - Life Sciences course.

ESE 118  Natural Disasters  credit: 3 hours.

Same as GEOL 118 and GLBL 118. See GEOL 118.

This course satisfies the General Education Criteria for a:
Nat Sci & Tech - Phys Sciences

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<tr>
<th>CRN</th>
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<td>A</td>
<td>11:00 AM - 11:50 AM</td>
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<td>2079 - Natural History Building</td>
<td>Christie, M Lai, J</td>
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Nat Sci & Tech - Phys Sciences course.

ESE 120  Severe and Hazardous Weather  credit: 3 hours.

Same as ATMS 120. See ATMS 120.

This course satisfies the General Education Criteria for a:
Quantitative Reasoning II
Nat Sci & Tech - Phys Sciences

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<td>54843</td>
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<td>02:00 PM - 03:20 PM</td>
<td>TR</td>
<td>THEAT - Lincoln Hall</td>
<td>Frame, J</td>
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Nat Sci & Tech - Phys Sciences, and Quantitative Reasoning II course.
If you have any questions about the project, the time commitment or anything else, please email the instructor, Eric Snodgrass (snodgrss@atmos.uiuc.edu).
### ESE 140  **Climate and Global Change**  credit: 3 hours.
Same as ATMS 140. See ATMS 140.

This course satisfies the General Education Criteria for a:
- Nat Sci & Tech - Phys Sciences

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<tr>
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<td>Lecture-Discussion</td>
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<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>119 - Materials Science &amp; Eng Bid</td>
<td>Miller, D</td>
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Nat Sci & Tech - Phys Sciences course.

### ESE 208  **History of the Earth System**  credit: 4 hours.
Same as GEOL 208. See GEOL 208.

This course satisfies the General Education Criteria for a:
- Nat Sci & Tech - Phys Sciences

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<td>54832</td>
<td>Laboratory</td>
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<td>220 - Davenport Hall</td>
<td>Stewart, M</td>
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Nat Sci & Tech - Phys Sciences course.

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<td>01:00 PM - 02:50 PM</td>
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<td>220 - Davenport Hall</td>
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Nat Sci & Tech - Phys Sciences course.

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<td>MWF</td>
<td>122 - Davenport Hall</td>
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Nat Sci & Tech - Phys Sciences course.

### ESE 210  **Social & Environmental Issues**  credit: 3 hours.
Same as GEOG 210. See GEOG 210.

This course satisfies the General Education Criteria for a:

**ESE 222  Big Rivers of the World**  credit: 3 hours. 
Same as GEOG 222. See GEOG 222.

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<td>MWF</td>
<td>2020A - Natural History Building</td>
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**ESE 287  Environment and Society**  credit: 3 hours. 
Same as GEOG 287, NRES 287 and PS 273. See NRES 287. 
This course satisfies the General Education Criteria for a: Social & Beh Sci - Soc Sci, and Cultural Studies - Western course.

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<td>Discussion/Recitation</td>
<td>AD1</td>
<td>01:00 PM - 01:50 PM</td>
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<td>326 - David Kinley Hall</td>
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<th>CRN</th>
<th>Type</th>
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<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>54848</td>
<td>Discussion/Recitation</td>
<td>AD2</td>
<td>01:00 PM - 01:50 PM</td>
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<td>103 - Bevier Hall</td>
<td>Van Riper, C</td>
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<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>54849</td>
<td>Discussion/Recitation</td>
<td>AD3</td>
<td>11:00 AM - 11:50 AM</td>
<td>F</td>
<td>326 - David Kinley Hall</td>
<td>Van Riper, C</td>
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<tr>
<th>CRN</th>
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<th>Instructor</th>
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<tr>
<td>54850</td>
<td>Discussion/Recitation</td>
<td>AD4</td>
<td>12:00 PM - 12:50 PM</td>
<td>F</td>
<td>326 - David Kinley Hall</td>
<td>Van Riper, C</td>
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<td>54851</td>
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<td>103 - Bevier Hall</td>
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<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>55546</td>
<td>Discussion/Recitation</td>
<td>AD6</td>
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<td>F</td>
<td>316S - Mumford Hall</td>
<td>Van Riper, C</td>
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</table>
ESE 311  Environmental Issues Today  credit: 3 hours.
Seminar exposing students in the Environmental Fellows Program to different disciplinary perspectives on specific environmental issues, as revealed in the scholarly literature. Specific problems will vary from term to term. This seminar helps students make the transition from disciplinary to interdisciplinary thinking. Team-taught. Same as ATMS 311. Prerequisite: Admission to Environmental Fellows Program or consent of advisor.

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<tr>
<td>54920</td>
<td>Conference</td>
<td>A</td>
<td>03:30 PM - 04:50 PM</td>
<td>TR</td>
<td>1306 - Everitt Laboratory</td>
<td>Kanter, R</td>
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ENROLLMENT FOR THIS COURSE IS UNRESTRICTED AND OPEN TO ALL UNDERGRADUATES. In the spring 2019 edition of ESE 311 will systematically explore a range of environmental issues as they are represented in the Vermilion River system of central Illinois, starting with the Boneyard Creek and heading downstream toward the Gulf of Mexico. Along the way, we’ll look at urban stormwater management, sewage treatment (cooler than it sounds!), the translocation of endangered mussels to sites in Vermilion County, changes to hydrology and pollution from industrial agriculture, coal issues, activism, and the importance of waterways for outdoor recreation. On Tuesdays, we’ll meet as a regular class to discuss a set of readings about the issue of the week, and on Thursdays we’ll host speakers (usually from outside the university) who are directly involved with those issues. The Thursday lectures will be held in an auditorium TBD and open to the public.

ESE 333  Earth Materials and the Env  credit: 4 hours.
Same as GEOL 333. See GEOL 333.

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<tbody>
<tr>
<td>54835</td>
<td>Laboratory</td>
<td>AB1</td>
<td>10:00 AM - 11:50 AM</td>
<td>T</td>
<td>1022 - Natural History Building</td>
<td>Altaner, S Yang, Y</td>
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<tr>
<td>54834</td>
<td>Lecture</td>
<td>AL1</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>220 - Davenport Hall</td>
<td>Altaner, S</td>
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</table>
### ESE 350  **Sustainability and the City**  credit: 3 hours.
Same as GEOG 350. See GEOG 350.

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<tbody>
<tr>
<td>59658</td>
<td>Lecture-Discussion</td>
<td>A</td>
<td>01:00 PM - 03:50 PM</td>
<td>W</td>
<td>137C - Davenport Hall</td>
<td>Wilson, D</td>
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### ESE 360  **Environmental Writing**  credit: 3 hours.
Equips students to write about the environment for various audiences, with a focus on specific current efforts to promote sustainability on the Urbana-Champaign campus. We will practice effective techniques for each stage of the writing process—from defining topics, to gathering information, to crafting active, engaging prose. Readings will include models of effective environmental writing and "how to" pieces by experts. Research will include visits to campus sites and student-conducted interviews with subjects. Same as ENGL 360.
Prerequisite: Completion of campus Composition I general education requirement.
This course satisfies the General Education Criteria for a:
Advanced Composition

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<tr>
<td>66865</td>
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<td>Molbert, N</td>
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Advanced Composition course.
Restricted to BSLAS: ESES Online - UIUC.
Meets 14-Jan-19 - 08-Mar-19.

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<td>67476</td>
<td>Lecture-Discussion</td>
<td>B</td>
<td>09:30 AM - 10:50 AM</td>
<td>TR</td>
<td>131 - English Building</td>
<td>Jones, J</td>
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</table>

Advanced Composition course.

### ESE 379  **Intro to GIS Systems**  credit: 4 hours.
Same as GEOG 379. See GEOG 379.

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<th>Time</th>
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<th>Location</th>
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<tbody>
<tr>
<td>54799</td>
<td>Laboratory</td>
<td>AB1</td>
<td>09:00 AM - 10:50 AM</td>
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<td>338 - Davenport Hall</td>
<td>Kashem, M</td>
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<tbody>
<tr>
<td>54800</td>
<td>Laboratory</td>
<td>AB2</td>
<td>11:00 AM - 12:50 PM</td>
<td>F</td>
<td>338 - Davenport Hall</td>
<td>Kashem, M</td>
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<td>MW</td>
<td>1002 - Lincoln Hall</td>
<td>Kashem, M</td>
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### ESE 380  **GIS II: Spatial Prob Solving**  credit: 4 hours.
Same as GEOG 380. See GEOG 380.
This course satisfies the General Education Criteria for a:
Quantitative Reasoning II
Quantitative Reasoning II course.

ESE 401  **ESE Capstone**  credit: 3 hours.
Capstone experience for majors in Earth, Society, and Environment Sustainability. 3 undergraduate hours. No graduate credit. Approved for Letter and S/U grading. May be repeated once.

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Instructor Approval Required

ESE 439  **Biogeography**  credit: 3 hours.
Same as ANTH 436, GEOG 436, IB 439, and NRES 441. See IB 439.

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<td>56936</td>
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<td>TR</td>
<td>2083 - Natural History Building</td>
<td>Punyasena, S</td>
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</table>

ESE 445  **Earth Resources Sustainability**  credit: 3 hours.
Introduces the physical (energy, mineral, and soil) resources of the Earth, the environmental consequences of producing and using resources, the controls on resource supplies, and the alternatives to traditional supplies. Focuses on the geological origin and context of resources, the means of exploration and production, the history of production, and sustainability issues related to consumption and depletion. Provides an understanding of why resources can be scarce and expensive, why many are not renewable, and why their use impacts the Earth System. May include field trips. 3 undergraduate hours. 3 graduate hours. Credit is not given for both ESE 445 and GEOL 380. Prerequisite: Junior standing or higher.

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<td>61711</td>
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<td>Cole, T</td>
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</table>

Restricted to Earth, Soc, Env Sustainability major(s).
ESE and iSEE minors are welcome to enroll. Please send your UIN to tomkin@illinois.edu to request an override.

ESE 497  **Special Topics in ESE**  credit: 1 TO 4 hours.
Advanced topics course, consisting of seminar or lectures in subjects not covered by regular course offerings; for advanced undergraduates and graduate students. Possible field study in a prominent geological locality; includes in-class meetings, student-led presentations, and field trip; trips run during spring break, winter break, in mid-end May; dates depend on location. Additional fees may apply. See Class Schedule. 1 to 4 undergraduate hours. 1 to 4 graduate hours. Approved for letter and S/U grading. May be repeated in the same or separate terms to a maximum of 12 undergraduate hours or 8 graduate hours. Prerequisite: Consent of instructor.
Field trip fee required for some sections.
Credit Hours: 3 hours
Multimedia Environmental Comms
In this course students develop capacities to communicate with a broad audience about the questions central to the ESES major, from the very broad-e.g. "What is sustainability?" - to the very narrow, e.g. "How much do campus efforts at recycling make a difference in the world?" Storytelling and clear exposition will be emphasized across multiple platforms, which will include blogs, audio podcasts and short videos, among others. In addition, students in the course will have the opportunity to partner with campus units and other local organizations-e.g., Institute for Sustainability, Energy, and Environment and Prairie Rivers Network-to create materials that will be useful for real-world outreach efforts as well as credit in the course. Standard Letter Grading.

ESE 498  Environmental Writing for Publication  credit: 3 hours.
Provides students with both the experience of the real-world editorial process and with a research product (the published essay) that showcases their professional development as well-informed and persuasive writers on environmental issues. Same as ENGL 498. 3 undergraduate hours. No graduate credit. Prerequisite: Consent of instructor.

Consent of instructor is not required.