ESE - Earth, Society, & Environment

ESE Class Schedule (https://courses.illinois.edu/schedule/DEFAULT/DEFAULT/ESE/)

Courses

ESE 100 Sustainable Earth credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/100/)
Provides an introduction to sustainability that explores how today’s human societies can endure in the face of global change, ecosystem degradation, and limited resources. Emphasizes the fundamentals of the physical sciences and the scientific method while also exploring the special impact of sustainability challenges on minority cultures in the U.S. Prerequisite: This course is intended for first and second year students.
This course satisfies the General Education Criteria for:
- Grand Challenge-Sustainability
- Nat Sci Tech - Phys Sciences

ESE 103 Earth’s Physical Systems credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/103/)
Same as GGIS 103. See GGIS 103.
This course satisfies the General Education Criteria for:
- Nat Sci Tech - Phys Sciences

ESE 104 Geology of the National Parks credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/104/)
Same as GEOL 104. See GEOL 104.
This course satisfies the General Education Criteria for:
- Nat Sci Tech - Phys Sciences

ESE 106 Geographies of Globalization credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/106/)
Same as GGIS 106. See GGIS 106.
This course satisfies the General Education Criteria for:
- Cultural Studies - Non-West
- Social Beh Sci - Soc Sci

ESE 111 Emergence of Life credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/111/)
Same as GEOL 111. See GEOL 111.
This course satisfies the General Education Criteria for:
- Nat Sci Tech - Life Sciences

ESE 117 The Oceans credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/117/)
Same as GEOL 117. See GEOL 117.
This course satisfies the General Education Criteria for:
- Nat Sci Tech - Phys Sciences

ESE 118 Natural Disasters credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/118/)
Same as GEOL 118 and GLBL 118. See GEOL 118.
This course satisfies the General Education Criteria for:
- Nat Sci Tech - Phys Sciences

ESE 120 Severe and Hazardous Weather credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/120/)
Same as ATMS 120. See ATMS 120.
This course satisfies the General Education Criteria for:
- Nat Sci Tech - Phys Sciences
- Quantitative Reasoning II

ESE 140 Climate and Global Change credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/140/)
Same as ATMS 140. See ATMS 140.
This course satisfies the General Education Criteria for:
- Nat Sci Tech - Phys Sciences

ESE 143 History of Life credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/143/)
Same as GEOL 143. See GEOL 143.
This course satisfies the General Education Criteria for:
- Nat Sci Tech - Life Sciences

ESE 170 Nature Religion credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/170/)
Same as REL 170. See REL 170.
ESE 199 Undergraduate Open Seminar credit: 1 to 5 Hours. (https://courses.illinois.edu/schedule/terms/ESE/199/)
Special topics in Earth, Society, and the Environment; content is variable. May be repeated if topics vary.

ESE 200 Earth Systems credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/200/)
Interdisciplinary lecture class intended to introduce Earth Systems studies, which focuses on integrating social and natural science approaches to studying the Earth and its environments.

ESE 201 American Environmental History credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/201/)
Same as HIST 201. See HIST 201.
This course satisfies the General Education Criteria for:
- Humanities - Hist Phil
- Cultural Studies - Western

ESE 208 History of the Earth System credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/208/)
Same as GEOL 208. See GEOL 208.
This course satisfies the General Education Criteria for:
- Nat Sci Tech - Phys Sciences

ESE 210 Social & Environmental Issues credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/210/)
Same as GGIS 210. See GGIS 210.
This course satisfies the General Education Criteria for:
- Social Beh Sci - Soc Sci

ESE 222 Big Rivers of the World credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/222/)
Same as GGIS 222. See GGIS 222.
ESE 254 People, Places, and Environments of the US credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/254/)
Same as GGIS 254. See GGIS 254.
This course satisfies the General Education Criteria for:
- Social Beh Sci - Soc Sci
- Cultural Studies - US Minority

ESE 287 Environment and Society credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/287/)
Same as GGIS 287, NRES 287 and PS 273. See NRES 287.
This course satisfies the General Education Criteria for:
- Social Beh Sci - Soc Sci
- Cultural Studies - Western

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ESE 289 Environment & Sustainability Field Study  credit: 1 Hour. ([courses.illinois.edu/schedule/terms/ESE/289/](https://courses.illinois.edu/schedule/terms/ESE/289/))  
Group expedition to study environment and sustainability issues at a nearby field site. Includes in-class meetings, student-led presentation, and a field trip that may be short as part of a day or as long as several days. Field trip and field trip fee required. Additional fees may apply. See Class Schedule. Approved for letter and S/U grading. May be repeated in separate terms if topics vary. Prerequisite: For ESE majors, minors, and Sustainability Living Learning Community students. Non majors can apply to the waitlist.

ESE 293 The Anthropocene  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/ESE/293/](https://courses.illinois.edu/schedule/terms/ESE/293/))  
Same as ENGL 293. See ENGL 293.

ESE 311 Environmental Issues Today  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/ESE/311/](https://courses.illinois.edu/schedule/terms/ESE/311/))  
Seminar exposing students 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.

ESE 320 Water Planet, Water Crisis  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/ESE/320/](https://courses.illinois.edu/schedule/terms/ESE/320/))  
Study of the science of water on planet earth, the developing water crisis, and some possible solutions to it. Topics include water’s unique physical and chemical properties; how it profoundly shapes the earth/ ocean/ atmosphere system; dynamics of oceans, atmosphere, lakes, rivers, groundwater, and ice masses; current fresh water supplies and their distribution on earth relative to population; current and future water crises and the compounding effects of droughts, floods, and global change; and prospects for some technological and economic approaches to easing the crisis. Same as GEOL 370 and GGIS 370.

ESE 333 Earth Materials and the Env  credit: 4 Hours. ([courses.illinois.edu/schedule/terms/ESE/333/](https://courses.illinois.edu/schedule/terms/ESE/333/))  
Same as GEOL 333. See GEOL 333.

ESE 350 Sustainability and the City  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/ESE/350/](https://courses.illinois.edu/schedule/terms/ESE/350/))  
Same as GGIS 350. See GGIS 350.

ESE 360 Environmental Writing  credit: 3 Hours. ([courses.illinois.edu/schedule/terms/ESE/360/](https://courses.illinois.edu/schedule/terms/ESE/360/))  
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: Advanced Composition

ESE 379 Introduction to Geographic Information Systems  credit: 4 Hours. ([courses.illinois.edu/schedule/terms/ESE/379/](https://courses.illinois.edu/schedule/terms/ESE/379/))  
Same as GGIS 379. See GGIS 379.

ESE 380 Geographic Information Systems II  credit: 4 Hours. ([courses.illinois.edu/schedule/terms/ESE/380/](https://courses.illinois.edu/schedule/terms/ESE/380/))  
Same as GGIS 380. See GGIS 380.  
This course satisfies the General Education Criteria for: Quantitative Reasoning II
ESE 467 Multimedia Environmental Communications  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/467/)
Develops capacities to communicate about sustainability and other environmental topics. Storytelling and clear exposition across multiple types of media will be emphasized. Students will be exposed to the application of blogs, audio podcasts, short videos, infographics and social media applications to communicate effectively about environmental science and allied fields. Skills in photography, videography, audio capture, developing scripts, interviewing, and social media best practices will be learned. Same as ENGL 467. 3 undergraduate hours. 4 graduate hours.

ESE 470 Introduction to Hydrogeology  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/470/)
Same as GEOL 470. See GEOL 470.

ESE 477 Advanced Environmental Writing  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/477/)
Same as ENGL 477. See ENGL 477.
This course satisfies the General Education Criteria for:
Advanced Composition

ESE 482 Challenges of Sustainability  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/482/)
An interdisciplinary approach to investigating the meaning and practice of sustainability in the contemporary Earth system. As a consequence, students explore the sustainability of crucial resources - water, soil, energy, mineral and the biota - in the context of the social and environmental systems in which these resources are used, including the moral, physical, ecological, political and economic. Same as GEOL 483 and GGIS 482. 3 undergraduate hours. 3 graduate hours. Prerequisite: Junior or senior standing, or consent of instructor.

ESE 486 Environmental Consulting  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/486/)
Same as GEOL 486. See GEOL 486.

ESE 497 Special Topics in ESE  credit: 1 to 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/497/)
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.

ESE 498 Environmental Writing for Publication  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/498/)
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.

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