Courses

ESE 103  Earth's Physical Systems  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/103)
Same as GEOG 103. See GEOG 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 GEOG 106. See GEOG 106.
This course satisfies the General Education Criteria for: Cultural Studies - Non-West
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 GEOL 222. See GEOL 222.
This course satisfies the General Education Criteria for: Social Beh Sci - Soc Sci

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 202  American Environmental History  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/202)
This course satisfies the General Education Criteria for: Humanities - Hist Phil
Cultural Studies - Western

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 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 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 215  Resource Conflicts  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/215)
Same as GEOL 215 and GLBL 215. See GEOL 215.
This course satisfies the General Education Criteria for: Social Beh Sci - Soc Sci

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

ESE 170  Nature Religion  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/170)
Same as REL 170. See REL 170.

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

ESE 289  Environment & Sustainability Field Study  credit: 1 Hour. (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. (https://courses.illinois.edu/schedule/terms/ESE/293)
Same as ENGL 293. See ENGL 293.

ESE 311  Environmental Issues Today  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/311)
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.

ESE 320  Water Planet, Water Crisis  credit: 3 Hours. (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 GEOG 370 and GEOL 370.

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

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

ESE 360  Environmental Writing  credit: 3 Hours. (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  Intro to GIS Systems  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/379)
Same as GEOG 379. See GEOG 379.

ESE 380  GIS II: Spatial Prob Solving  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/380)
Same as GEOG 380. See GEOG 380.
This course satisfies the General Education Criteria for: Quantitative Reasoning II

ESE 381  Environmental Perspectives  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/381)
Same as GEOL 381. See GEOL 381.

ESE 386  Arctic Environmt & Society  credit: 6 Hours. (https://courses.illinois.edu/schedule/terms/ESE/386)
Same as GLBL 386 and SCAN 386. See GLBL 386.

ESE 389  Environment and Sustainability Field Expedition  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/389)
Group expedition to study environment and sustainability issues at a field site. Includes in-class meetings, student-led presentation, and field trip; expeditions run during spring break, winter break, in mid-May or in intercession; dates depend on location. Field Trip and field trip fee required. Additional fees may apply. See Class Schedule. May be repeated up to 12 hours in separate terms if topics vary.

ESE 401  ESE Capstone  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/401)
Capstone experience for majors in Earth, Society, and Environment Sustainability. 3 undergraduate hours. No graduate credit. Approved for Letter and S/U grading.

ESE 410  Green Development  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/410)
Same as GEOG 410. See GEOG 410.

ESE 411  Geomorphology  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/411)
Same as GEOG 411. See GEOG 410.

ESE 421  Earth Systems Modeling  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/421)
Same as ATMS 421, GEOG 421, GEOL 481 and NRES 422. See ATMS 421.

ESE 439  Biogeography  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/439)
Same as ANTH 436, GEOG 436, IB 439, and NRES 441. See IB 439.

ESE 445  Earth Resources Sustainability  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/445)
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.

ESE 452  Ecosystem Ecology  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/452)
Same as IB 452 and NRES 462. See IB 452.

ESE 462  Ecological Criticism  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/462)
Same as CWL 460 and REL 462. See REL 462.

ESE 465  Transportation & Sustainability  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/ESE/465)
Same as ATMS 465. See ATMS 465.
This course satisfies the General Education Criteria for: Advanced Composition

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 481  Intl Environ Cooperation  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/ESE/481)
Same as GEOG 481. See GEOG 481.

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 GEOG 482 and GEOL 483. 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)
Survey of the fundamental science and US policy underpinning the practices of environmental consultancy. Environmental consulting is an interdisciplinary field drawing together engineers, geologists, environmental scientists, biologists, chemists, lawyers, social workers, social scientists, lobbyists and analysts. This course describes the myriad of pathways into environmental consulting and prepares students with the fundamental policy and science concepts. Subjects covered are the framework of environmental policy, chemicals of concern and their properties, environmental site assessment, site remediation, land use and ecosystem restoration as well as indoor environmental concerns. Same as GEOL 486. 3 undergraduate hours. 3 graduate hours.

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.