UNIVERSITY OF MINNESOTA
Driven to Discover℠

Twin Cities Campus

Earth Sciences Minor

CLA Dean's Office

College of Liberal Arts

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Spring 2022
- Required credits in this minor: 18

Earth science is the study of the composition, structure, and history of the Earth and of the processes that operate on and within it, with emphasis on the crust, oceans, and atmosphere.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Students may complete no more than one degree in the Earth Sciences program: a BA or a BS or a minor.

Foundation Course

Take exactly 1 course(s) totaling exactly 4 credit(s) from the following:

- ESCI 1001 - Earth and Its Environments [PHYS, ENV] (4.0 cr)
  or ESCI 1005 - Geology and Cinema [PHYS, ENV] (4.0 cr)
  or ESCI 1006 - Oceanography [PHYS, ENV] (4.0 cr)
  or ESCI 1007 - From Microbes to Mammoths: History of Life on Earth [BIOL] (4.0 cr)

Electives

Take 14 or more credit(s) from the following:

- ESCI 2302 - Petrology (3.0 cr)
- ESCI 3004 - Water and Society [ENV] (3.0 cr)
- ESCI 3005 - Earth Resources (3.0 cr)
- ESCI 3006 - Rocks and Stars: Introduction to Planetary Science (3.0 cr)
- ESCI 3093 - Directed Studies in Earth & Environmental Sciences: Junior (1.0 - 4.0 cr)
- ESCI 3890 - Field Workshop (1.0 cr)
- ESCI 4010 - Undergraduate Seminar: Current Topics in Earth & Environmental Sciences (1.0 - 4.0 cr)
- ESCI 4093 - Directed Studies in Earth & Environmental Sciences: Senior (1.0 - 4.0 cr)
- ESCI 4094 - Senior Thesis (2.0 cr)
- ESCI 4102W - Vertebrate Paleontology: Evolutionary History and Fossil Records of Vertebrates [WI] (3.0 cr)
- ESCI 4103W - Fossil Record of Mammals [WI] (3.0 cr)
- ESCI 4203 - Environmental Geophysics (3.0 cr)
- ESCI 4204 - Geomagnetism and Paleomagnetism (3.0 cr)
- ESCI 4211 *{Inactive}*(3.0 cr)
- ESCI 4212 - Geodynamics (3.0 cr)
- ESCI 4401 - Aqueous Environmental Geochemistry (3.0 cr)
- ESCI 4402 - Biogeochemical Cycles in the Ocean (3.0 cr)
- ESCI 4501 - Structural Geology (3.0 cr)
- ESCI 4502 - Tectonic Styles (3.0 cr)
- ESCI 4602 - Sedimentology and Stratigraphy (3.0 cr)
- ESCI 4701 - Geomorphology (4.0 cr)
- ESCI 4702 - General Hydrogeology (4.0 cr)
- ESCI 4703 - Glacial Geology (4.0 cr)
- ESCI 4801 - Geomicrobiology (3.0 cr)
- ESCI 5201 - Time-Series Analysis of Geological Phenomena (3.0 cr)
- ESCI 5203 - Mineral and Rock Physics (3.0 cr)
- ESCI 5204 - Geostatistics and Inverse Theory (3.0 cr)
- ESCI 5302 - Isotope Geology (3.0 cr)
- ESCI 5351 *{Inactive}*(3.0 cr)
- ESCI 5353 - Electron Microprobe Theory and Practice (3.0 cr)
- ESCI 5503 - Advanced Petrology (3.0 cr)
- ESCI 5705 - Limnogeology and Paleoenvironment (3.0 cr)

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•ESCI 5980 - Seminar: Current Topics in Earth Sciences (1.0 - 4.0 cr)
•ESPM 3425 - Atmospheric Pollution: From Smog to Climate Change (3.0 cr)
•GCC 3004 *{Inactive}*[ENV] (3.0 cr)
•GCC 5008 - Policy and Science of Global Environmental Change [ENV] (3.0 cr)
•ESCI 3002 - Climate Change and Human History [ENV] (3.0 cr)
or ESCI 5102 - Climate Change and Human History (3.0 cr)
•ESCI 3402 - Science and Politics of Global Warming [ENV] (3.0 cr)
or ESCI 5402 - Science and Politics of Global Warming (3.0 cr)

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