

ESC: Earth Science Courses

Courses

ESC 2000 Introduction to Earth Science

College of Sci and Engineering, Department of Earth & Environmental Sciences

3 sh (may not be repeated for credit)

Using the scientific method, critical thinking skills, data analysis, this course will examine the fundamental processes of the Earth system, composed of an atmosphere, hydrosphere, lithosphere, biosphere, and exosphere, through time. The course will also explore interactions between these spheres, including critical analysis of scientific theories and emphasize Earth's connections with humans. Student Learning Outcomes: Students will use critical thinking to recognize the rigorous standards of scientific theories. Students will analyze and synthesize Earth science data to draw scientifically valid conclusions. Students will recognize the different time scales associated with different Earth processes. Students will effectively communicate the importance of the interactions between humans and the Earth's spheres. Students will apply their understanding of these Earth science principles to complex global and local issues. Meets General Education requirement in Natural Sciences.

ESC 2000L Introduction to Earth Science Laboratory

College of Sci and Engineering, Department of Earth & Environmental Sciences

1 sh (may not be repeated for credit)

Co-requisite: ESC 2000

This course introduces concepts that form the foundation of our understanding of Earth's physical environment, including an examination of processes that formed Earth and continue to affect its physical environment and the communities that live on its surface. This course demonstrates the basic relationships among lithosphere, hydrosphere, atmosphere, and biosphere, including the human interactions with the physical Earth system. Co-requisites: ESC 2000.

ESC 2905 Directed Study

College of Sci and Engineering, Department of Earth & Environmental Sciences

1-12 sh (may be repeated indefinitely for credit)