

Earth Sciences - CPS (ESC)

ESC 1100. The Geosphere: Physical and Historical Geology. (3 Hours)

Examines the dynamic processes that continually create the Earth. Examines the internal structure, resulting tectonic movements, volcanism and seismic activity, rock and mineral genesis, and chemical and physical weathering shaping Earth's surface through time. Stresses the scientific basis for our understanding of the physical earth.

Attribute(s): NUpath Natural/Designed World

ESC 1150. The Atmosphere. (3 Hours)

Examines Earth's atmospheric structure and applies laws of physics to describe and explain broad climate and circulation patterns and local weather events that maintain or can disrupt ecosystems as heat energy and water move through Earth's spheres.

Attribute(s): NUpath Natural/Designed World

ESC 1200. The Hydrosphere: Oceanography, Ground and Surface Water. (3 Hours)

Examines the physical structure, biological provinces, and varying chemistries of Earth's ocean and other water resources. Topics range from El Nino/ Southern Oscillation to lake eutrophication.

Attribute(s): NUpath Natural/Designed World

ESC 1990. Elective. (1-4 Hours)

Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

ESC 2990. Elective. (1-4 Hours)

Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

ESC 3990. Elective. (1-4 Hours)

Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

ESC 4955. Project. (1-4 Hours)

Reviews the theory and practice of environmental permitting and environmental assessment. Topics include major federal and state environmental regulations, the environmental permitting process, risk assessment and management, and environmental compliance. May be repeated without limit.

ESC 6962. Elective. (1-4 Hours)

Offers elective credit for courses taken at other academic institutions. May be repeated without limit.