

ESCI Courses (Earth Science)

The first number is course level (1 = freshman, 2 = sophomore, 3 = junior, 4 = senior, 5 = graduate).

The middle two numbers are identifiers specific to the course

The last number is the number of credit hours

ESCI 1033 Elements of Astronomy

A.C.T.S. Equivalent Course # PHSC 1204 when combined with ESCI 1041 Elements of Astronomy Laboratory

3 credits: 3 hours lecture

A study of astronomy from the past to the present including examinations of the solar system, properties of stars, and characteristics of galaxies.

ESCI 1041 Elements of Astronomy Laboratory

1 credit: 2 hours laboratory

A laboratory course to supplement ESCI 1033.

ESCI 1051 Elements of Geology Laboratory

A.C.T.S. Equivalent Course # GEOL 1114 when combined with ESCI 1063 Elements of Geology

1 credit: 2 hours laboratory

Corequisite: ESCI 1063

Identification of minerals and rocks, introduction to maps, methodology of absolute and relative age dating. Introduction to structural geology.

ESCI 1063 Elements of Geology

A.C.T.S. Equivalent Course # GEOL 1114 when combined with ESCI 1051 Elements of Geology Laboratory

3 credits: 3 hours lecture

Corequisite: ENGL 1013

Materials of the Earth's crust and the processes and agents that affect them; plate tectonics, earthquakes, volcanoes, and Earth history.

ESCI 1073 Earth and Atmosphere

A.C.T.S. Equivalent Course # PHSC 1104 when combined with ESCI 1081 Earth and Atmosphere Laboratory

3 credits: 3 hours lecture

Corequisite: ESCI 1081

Survey of the nature of the Earth's hydrosphere in terms of composition, origin, and physical processes; weather, climate, oceans, streams, groundwater, and glaciers.

ESCI 1081 Earth and Atmosphere Laboratory

A.C.T.S. Equivalent Course # PHSC 1104 when combined with ESCI 1083 Earth and Atmosphere

1 credit: 2 hours laboratory

Corequisite: ESCI 1073

Exercises involving interpretation of oceanic data, methodology of collecting weather data, stream and groundwater flow problems.

ESCI 1123 Meteorology

3 credits: 3 hours lecture

Corequisite: ESCI 1131

Survey of the Earth's Atmosphere in terms of weather patterns and climate changes.

ESCI 1131 Meteorology Lab

1 credit: 2 hours laboratory

Corequisite: ESCI 1123

Exercises involving interpretation of weather and climate data.

ESCI 222V Field Geology

Variable credit

NOTE: May be repeated for a maximum of 3 hours credit.

Introduction to the methods of field investigation and interpretation of geological features. The purpose and scope of the course will vary from trip to trip.

ESCI 3473 Earth Resources

3 credits: 3 hours lecture

Prerequisite: ESCI 1063

Origin, classification, and distribution of the Earth's economic minerals, rocks, water, and fossil fuels.

ESCI 3493 Environmental Science

3 credits: 3 hours lecture

Prerequisite: three hours of biology or earth science

NOTE: Same as BIOL 3493

A survey of the environment to provide an understanding of and respect for the ecosystems upon which the human species is dependent. Fall offering in even-numbered years.

ESCI 358V Natural History

Variable credit

Prerequisite: three hours biology or earth science

NOTE: May be taken for a maximum of 3 hours credit. Same as BIOL 358V, FOR 358V, and WLF 358V.

A field course in geology and biology of natural ecosystems, consisting of travel, study, and/or research in unique natural areas of North America.

ESCI 3503 Advanced Astronomy

3 credits: 3 hours lecture

Prerequisite: ESCI 1033

Analysis, makeup, and operation of planetary systems; star formation and types; classes and variations of galaxies; operation of the universe.

ESCI 4652 Special Topics

2 credits: 2 hours lecture

Selected topics from the areas of astronomy designed to be of particular interest and use to in-service teachers. May be taken by regular students only with permission of the Vice Chancellor for Academic Affairs. May be repeated for a total of six hours credit.