

EARTH SCIENCE (ESCI)

ESCI 104 3.0 UNITS

Oceanography

Class Hours: 3.0 Lecture

Total Contact Hours: 54 Lecture

Recommendation: Courses taught at the level of Introduction to College Composition with a grade of "C" or higher or "Pass" or equivalent or appropriate placement based on the college's multiple measures process with eligibility for ENG 100 or ENGL 100S AND courses taught at the level of PreAlgebra with a grade of "C" or higher or "Pass" or equivalent or appropriate placement based on the college's multiple measures process with eligibility for Elementary Algebra.

This course is an introduction to the geography of the oceans, geology of the ocean basins, and the chemistry and physics of sea water. The ecology of the sea and its effect on the ecosphere are also covered. Landforms and processes of the coastal zone and use and abuse of the marine environment are discussed.

Transfer Credit: CSU; UC

ESCI 104L 1.0 UNITS

Oceanography Laboratory

Class Hours: 3.0 Laboratory

Total Contact Hours: 54 Laboratory

Prerequisite: ESCI 104 or equivalent with a grade of "C" or higher or "Pass" or concurrent enrollment.

Recommendation: Courses taught at the level of Introduction to College Composition with a grade of "C" or higher or "Pass" or equivalent or appropriate placement based on the college's multiple measures process with eligibility for ENG 100 or ENGL 100S AND courses taught at the level of PreAlgebra with a grade of "C" or higher or "Pass" or equivalent or appropriate placement based on the college's multiple measures process with eligibility for Elementary Algebra.

This laboratory/field study course is designed to supplement ESCI 104-Oceanography. Emphasis will be placed on the interrelationships between the geological, chemical, physical, and biological aspects of the marine environment. In addition, human use and abuse of the coastal zone and marine environment will be analyzed.

Transfer Credit: CSU;UC

ESCI 106 3.0 UNITS

Weather and Climate

Class Hours: 3.0 Lecture

Total Contact Hours: 54 Lecture

Recommendation: Courses taught at the level of Introduction to College Composition with a grade of "C" or higher or "Pass" or equivalent or appropriate placement based on the college's multiple measures process with eligibility for ENGL 100 or ENGL 100S or a course at the level of college reading and Courses taught at the level of Elementary Algebra with a grade of "C" or higher or "Pass" or equivalent or appropriate placement based on the college's multiple measures process.

This course is a survey of the processes and patterns in the atmosphere which result in the regional distribution of weather and climate.

Transfer Credit: CSU; UC

C-ID: GEOG 130

ESCI 106L 1.0 UNITS

Weather and Climate Laboratory

Class Hours: 3.0 Laboratory

Total Contact Hours: 54 Laboratory

Prerequisite: ESCI 106 or equivalent with a grade of "C" or higher or "Pass" or concurrent enrollment.

Recommendation: ENGL 100 or ENGL 100S with a grade of "C" or higher or "Pass" or equivalent and courses at the level of PreAlgebra with a grade of "C" or higher or "Pass" or equivalent or appropriate placement based on the college's multiple measures process.

This laboratory/field study course is designed to supplement Earth Science 106 Weather and Climate. Emphasis will be placed on the basic techniques used by meteorologists (and other scientists) to gather and interpret atmospheric data.

Transfer Credit: CSU; UC

ESCI 110 4.0 UNITS

Introduction To Earth Science

Class Hours: 3.0 Lecture / 3.0 Laboratory

Total Contact Hours: 54 Lecture / 54 Laboratory

Recommendation: Courses taught at the level of Introduction to College Composition with a grade of "C" or higher or "Pass" or equivalent or appropriate placement based on the college's multiple measures process with eligibility for ENG 100 or ENGL 100S AND courses taught at the level of PreAlgebra with a grade of "C" or higher or "Pass" or equivalent or appropriate placement based on the college's multiple measures process with eligibility for Elementary Algebra.

This course is an introduction to the Earth system. It is an integrated course designed to give broad, general knowledge in the areas of astronomy, geology, meteorology, and oceanography. The laboratory component focuses on the solar system, plate tectonics, glaciers, volcanoes, earthquakes, and climate change.

Transfer Credit: CSU; UC

ESCI 180 1.0 UNITS

Earth Science Materials and Preparations

Class Hours: 3.0 Laboratory

Total Contact Hours: 54 Laboratory

Prerequisite: ESCI 110, or GEOL 101, or GEOG 101, or GEOG 101L with a grade of "C" or higher or "Pass."

This course is designed primarily for earth science, geology, or geography majors. It focuses on the use and care of laboratory and field equipment necessary for the preparation of field and laboratory demonstrations. An introduction to stockroom procedures may be included.

Transfer Credit: CSU

ESCI 298 1.0 UNITS

Directed Studies

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours). This course may be taken a maximum of 2 times.

Transfer Credit: CSU

ESCI 299

2.0 UNITS

Directed Studies

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU