

**Earth Science (EAS)
Physical Sciences & Mathematics Department
School of Natural & Social Sciences
Carhart Science Building**

Objectives: Courses in Earth Science are designed to acquaint the student with the planet Earth, its physical makeup and place in the universe. The offerings in Earth Science may be selected by students desiring to major in Geography and those working toward a Natural Science or Physical Science field endorsement to teach. Students majoring in other areas may select Earth Science as a minor field of study. Such a minor is especially beneficial to those students specializing in Biology, Chemistry, Mathematics or Physics.

Minor in Earth Science: 21 hours

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

EAS 110 Introduction to Meteorology.....	4
120 Introduction to Geology.....	4
320 Rocks and Minerals.....	2
401 Astronomy.....	4

Upper Level Earth Science Electives.....7

Upper level elective hours may be selected by advisement from Earth Science, Geography, Biology, Chemistry or Physics.

Undergraduate Courses

EAS 110 Introduction to Meteorology (4) An introduction to the Earth as planet with special emphasis being placed upon atmospheric and oceanic processes. (3 hours lecture, 3 hours lab)

EAS 120 Introduction to Geology (4) A study of the solid earth in terms of its internal structure and surface landforms. (3 hours lecture, 3 hours lab)

EAS 250 Discover Astronomy (3) A course that examines current or special topics in Astronomy. Emphasis will be placed upon discussions and interactive investigations about astronomical subjects. (4 hours lecture/lab combined) The course may be repeated twice when no duplication of topics exists.

EAS 310 Weather Systems of North America (4) An advanced course in weather analysis, with special emphasis on the various climatic regions. (3 hours lecture, 3 hours lab)

EAS 320 Rocks and Minerals (2) A study of the formation, occurrence and classification of rocks in the earth's crust, with emphasis on the relationship of minerals to the composition and types of crustal materials. (1½ hours lecture, 1½ hours lab)

EAS 393 Laboratory Techniques (1) Prerequisite: Junior standing. Assisting in the preparation and evaluation of laboratory activities (one lab per week).

EAS 401/501 Astronomy (4) An analytic study of the solar system, our galaxy, and the universe, including a survey of cosmological theory. Graduate students will do a project and write a paper. (3 hours lecture, 3 hours lab)

EAS 420 Geology of North America (2) Prerequisite: EAS 120. A study of the geologic framework of the North American continent with emphasis on the significant geologic problems of each province. (1½ hours lecture, 1½ lab)

EAS 430/530 Oceanography (3) An analytic study of the ocean floor, inherent motions of water and the chemical properties of the oceans. Graduate students will do an additional project and write a paper.

Eligible seniors may enroll in 500 level graduate courses. Graduate Courses

EAS 501 Astronomy (4) See EAS 401

EAS 530 Oceanography (3) See EAS 430