

## **EARTH SCIENCE (EASC & ESLB)**

**101. Earth Science I.** Credit 3 hours. An elementary treatment of sun-Earth relationships and the solar and stellar system.

**102. Earth Science II.** Credit 3 hours. An elementary study of geology and oceanography.

**103. Earth Science Laboratory I.** Credit 1 hour. Prerequisites: Registration for or prior credit for Earth Science 101. A series of selected experiments to aid students in their understanding of meteorology and/or celestial mechanics. Two hours of laboratory a week.

**104. Earth Science Laboratory II.** Credit 1 hour. Prerequisites: Prior credit for Earth Science 103 and registration for or prior credit for Earth Science 102 or permission of the Department Head. A series of activities to aid students in their understanding of geological formations and processes. Two hours of laboratory a week.

**142. Elementary Earth-Space Science.** Credit 3 hours. Prerequisites: Education major, in-service teacher or permission of the Department Head. This course is designed to prepare prospective and in-service K-12 teachers to teach Earth and space science as a process of inquiry. The curriculum focuses on core concepts of earth and space science, and students will actively engage in a process of hands-on investigation and discovery in a laboratory setting. The primary objective is to provide a student-centered, active-learning environment that promotes critical thinking, collaborative learning, and an understanding and appreciation of the processes of scientific investigation. Three hours of integrated lecture and laboratory per week.

**201. Earth Science III.** Credit 3 hours. Prerequisite: Earth Science 101 and 103. A continuation of Earth Science 101. Emphasis will be on stars and stellar systems, stellar evolution, galactic structure and basic cosmology.

**205. Special Topics in Earth Science.** Credit 4 hours. Prerequisites: A 100 level Earth Science lecture and lab and permission of the Department Head. Selected topics in Earth Science that are new or unique and are not covered in existing courses. This course is designed primarily for education majors. This course is a guided inquiry approach to learning and also integrates a service-learning component. It is comparable to a three hour lecture/two hour laboratory per week course. This course may not be used to satisfy the General Education sequence requirement in the Natural Sciences. This course may be repeated, as topics vary, for a maximum of 12 credit hours.