ES-Earth Science Courses

Courses

ES 101. Physical Geology. 3 Hours.
Study of the earth, its materials and natural resources, processes of change, natural hazards to mankind. Lecture. This course, when taken with its corresponding laboratory, meets the Blazer Core Curriculum Scientific Inquiry.

ES 102. Physical Geology Laboratory. 1 Hour.
Study of properties and uses of rocks and minerals. Study of landscapes and various types of maps. One laboratory session per week. This course, when taken with its corresponding lecture, meets the Blazer Core Curriculum Scientific Inquiry.
Prerequisites: ES 101 [Min Grade: D](Can be taken Concurrently)

ES 103. History of the Earth. 3 Hours.
Interpretation of Earth's history through geologic time. Study of life on Earth through the fossil record. Lecture. This course, when taken with its corresponding laboratory, meets the Core Curriculum requirements for Area III: Natural Sciences.

ES 104. History of the Earth Laboratory. 1 Hour.
Sedimentary materials and environments of formation. Fossil identification. Geologic time and principles of age-dating. One laboratory session per week.

ES 105. Physical Geography. 3 Hours.
Atmosphere, weather, climate and climatic regions, and soils.


ES 108. Urban Geology. 3 Hours.
Urban lives are dominated by concrete and steel, as well as daily movements from home to campus or work. Every manufactured object is derived from earth's resources, and the planet's dynamic activity drives and constrains movements. This course will introduce students to the resources of the material world, e.g. minerals, rock, water, and the processes that impact the urban environment, e.g. flooding, weathering, etc. Students will learn, practice, and employ scientific thinking skills to better understand and analyze connections between geologic resources and economics, environment, and social justice. This course meets Blazer Core Curriculum City as a Classroom.

ES 109. Planet Earth. 3 Hours.

ES 110. The Geography of Alabama. 3 Hours.
The physical geography of Alabama: geologic setting, landscape, climate and weather, soils and vegetation, natural resources.

ES 120. Geology for Engineers. 3 Hours.
The solid earth, the nature of the earth's crust, surficial processes.

ES 191. Co-op Work Program. 2-3 Hours.