



EARTH, WIND, AND FIRE



INTRODUCTION TO GEOSCIENCE

Earth, Wind, and Fire is a course in geoscience literacy. It covers the fundamentals of how the Earth works, and how its various systems — the lithosphere, atmosphere, hydrosphere, and biosphere — interact to form the complex world in which we live. Geoscience is the study of the Earth. It is an integrated science drawing on the fundamental principles of physics, chemistry, biology, and geosciences to explain Earth processes. Many of the most complex and interesting scientific problems of this century, such as energy resources, water supply, and climate change, require the skills of geologic thinking to solve. This class introduces students to the major areas in geoscience and helps them develop critical, creative, and geologic problem solving skills, as applied to 21st century scientific problems.

Students will experience curriculum designed by the faculty at The University of Texas at Austin. Students can earn three hours of UT credit with feedback and assessment provided by UT course staff. The dual-enrollment high school course will be Earth and Space Science. All of the ESS TEKS will be covered.

[Find out more »](#)



EARTH, WIND, AND FIRE
BIG IDEAS

**HOW THE SOLID
EARTH FUNCTIONS**

The Earth as a system, plate tectonics, the rock record, geologic time, geologic hazards

**HOW THE FLUID
EARTH FUNCTIONS**

Water cycle, groundwater, rivers, ocean and atmospheric circulation, climate, climate change, feedback loops

**HOW HUMANS INTERACT
WITH EARTH**

Earth resources, sustainability, stewardship, scientific debate and discussion

**HOW LIFE ON
EARTH EVOLVED**

Earth and life origins, change through time, extinction, population growth theory

TRANSFERABILITY

- 3 College Credits
- GEOL credit
- UT GEOL 302E

PRE-REQUISITES

- Biology and Chemistry; or
- IPC and Chemistry

**LEARN
MORE**

For more information, call **512.475.7877**
or visit us online at **onramps.utexas.edu**

