# Earth Science Course Overview and Syllabus

Course Subject Code: 5061

Grade level: 9-12

Prerequisite Courses: None

## Credits: 1.0

### **Course Description**

This full-year, dynamic course explores the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly prevalent in the national discourse, it will be important for students to understand the concepts and causes of our changing Earth. Earth Science is a two-semester course that provides a solid foundation for understanding the physical characteristics that make the planet Earth unique and examines how these characteristics differ among the planets of our solar system.

## **Course Objectives**

Throughout the course, you will meet the following goals:

- Conduct investigations and evaluate experimental designs.
- Evaluate evidence of the past and current movements of continental and oceanic crust and the theory of plate tectonics to explain the ages of crustal rocks.
- Explain the cycling of matter by thermal convection.
- Evaluate competing design solutions for developing, managing, and utilizing natural resources based on cost-benefit ratios.

The course objectives are implemented throughout specific lessons, which include examples of scientific and scholarly texts as well as virtual labs which allow for a real-world understanding of concepts. The objectives focus on investigating, evaluating, and exploring the scientific principles which guide further research and understanding.

The lesson objectives are assessed through assignments, quizzes, unit tests, labs, and cumulative exams.



## **Student Expectations**

This course requires the same level of commitment from you as a traditional classroom course. Students are expected to spend approximately five to seven hours per week online on:

- Interactive lessons that include a mixture of instructional videos and tasks
- Assignments in which you apply and extend learning in each lesson
- Assessments, including quizzes, tests, and cumulative exams

### Communication

Your teacher will communicate with you regularly through discussions, e-mail, chat, and system announcements, and will provide you with hours of availability, contact policies, and any synchronous attendance requirements. You will also communicate with classmates, either via online tools or face to face, as you collaborate on projects, ask and answer questions in your peer group, and develop your speaking and listening skills.

### **Grading Policy**

You will be graded on the work you do online and the work you submit electronically to your teacher. The weighting for each category of graded activity is listed below.

Grading Category	Weight
Assignments	20%
Labs	0%
Lesson Quizzes	25%
Unit Tests	30%
Cumulative Exams	20%
Projects	5%

### **Scope and Sequence**

When you log into Edgenuity, you can view the entire course map—an interactive scope and sequence of all topics you will study. The units of study are summarized below:

- Unit 1: Understanding the Universe
- Unit 2: History of the Earth
- Unit 3: Earth's Structure and Plate Tectonics
- Unit 4: Weathering and Erosion

- Unit 5: The Hydrosphere
- Unit 6: The Atmosphere and Weather
- Unit 7: Climate
- Unit 8: Natural Resources



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### **Standards Alignment**

The course was designed to meet the requirements of the 2014 Oklahoma Academic Standards for science. The standards aligned to each lesson are available in the student portal in the lesson information panel.

### **Materials and Technology Requirements**

All course materials are provided through the student portal. You will become familiar with them through an orientation video and the student handbook. These resources are available within the Student Organizer, where you can also check the status of your operating system, processor speed, plug-ins and connection speed.

#### Accessibility

The course is designed for accessibility to all students. The system provides features and accommodations to meet the needs of ELL and students with IEP's, 504 plans, and Section 508. These accommodations include addressing multiple learning styles, accommodations for assessments, video caption/transcripts, read-aloud and translation tools, and many other features/accommodations.



