

Environmental Science Course Overview and Syllabus

Course Description

Environmental science is a captivating and rapidly expanding field, and this course offers compelling lessons that cover many different aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policy. Through unique activities and material, high school students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments throughout the course.

Course Objectives

- Throughout the course, you will meet the following goals:
- Understand the interrelationships in the natural world
- Examine the natural cycles of energy flow and evaluate how human interaction affects these
- cycles
- Model real-world phenomena and determine possible consequences of specific actions
- Defend the best choices to protect the environment with changing trends in human
- demographics
- Interpret evidence and communicate scientifically about environmental conditions and hazards

Student Expectations

This course requires the same level of commitment as a traditional classroom course would. Throughout the course, you are expected to gain at least a 2% increase each day online on the following activities:

- 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

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	10%
Labs	10%
Lesson Quizzes	20%
Unit Tests	40%
Cumulative Exams	20%

Scope and Sequence

When you log into the Virtual Classroom, you can view the entire course map, which provides a scope and sequence of all topics you will study. Clicking a lesson's link in the course map leads to a page listing instructional activities, assignments, and learning objectives specific to that lesson. The units of study are summarized below:

Unit 1: The Scientific Inqu	irv and Measurement
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Unit 2: Scientific Models and Explanations

Unit 3: Applying Environmental Science

Unit 4: Biomes

Unit 5: Arid and Semi-Arid Biomes

Unit 6: Temperate and Wet Biomes

Unit 7: Aquatic Biomes

Unit 8: Organisms and Populations

Unit 9: Populations in Ecosystems

Unit 10: Matter & Energy in Ecosystems

Unit 11: Energy in Ecosystems

Unit 12: The Atmosphere, Geosphere and

Hydrosphere

Uit13: Forestry

Unit 14: Land Use and Management

Unit 15: The Hydrosphere

Unit16: The Environment and Society

Unit 17: Impacts on the Environment

Unit 18: Environmental Policy