Excel HIGH SCHOOL

Environmental Science - Course Syllabus

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. Students will connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the modules throughout the course.

Textbook: Environmental Science - Excel Education Systems, Inc. 2018 ©

Course objectives:

- 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.

Contents:

Semester A

1: An Introduction to Environmental Science
2: Understanding Our Environment
3: Using the Scientific Method and Models
4: Our Changing Earth
5: Organization of Living Things
6: Ecosystems
7: Biomes
8: Aquatic Ecosystems
9: Exploring Populations
10: Understanding Human Populations
11: What is Biodiversity?
12: Water Resources

Semester B

13: Air and Pollution
14: Earth's Climate
15: Land Use and Conservation
16: Agriculture and Food
17: Earth's Mineral Resources
18: Nonrenewable Energy Sources
19: Renewable Energy Sources
20: Waste Management
21: Human Health and The Environment
22: Politics, Economics, and The Environment

Grading Scale

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = under 59%

Grade Weighting

Quizzes…… 70%
Mid-Term/Final Exams … 30%
100%