AP ENVIRONMENTAL SCIENCE

TEACHER:

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Room S106

DIFFICULTY:

College course content, but in a high school setting. Expectations for exams are high, but lots of supports and guidance throughout the learning cycle.

CLASS LAYOUT AND WORKLOAD:

Homework -Reading and Video Lectures
Nightly, roughly 30-60 minutes of preparation before each block.
Lectures – Daily
In class, as recap of homework material
Quizzes
Frequently to ensure students are staying on track with reading assignments and content.
Investigations
Weekly, to reinforce content.

WHY TAKE APES?

- Take an engaging and inspiring course aimed at learning about our world from many perspectives.
- Learn foundational AP science skills that will translate into other courses
- Learn about many potential career pathways and job opportunities.

APES is an interdisciplinary course that focuses on ecological processes, human impacts on the Earth, and how to resolve or prevent natural and human-made environmental problems. Like other AP science classes, AP Enviro also includes a lab component, and students who take the class will get hands-on experience in the form of completing labs, observing the natural world, and/or doing field work. You might have to collect water and test it for certain chemicals, observe wildlife in a field or forest, track plant growth, and so on. Students who complete AP Environmental Science are expected to be able to apply scientific concepts, principles, and methodologies to real-world examples and problems. The exam questions are designed to test this knowledge, too.

UNITS OF STUDY

Unit 1: Introduction
- Environmental Science: Studying the State of our Earth
- Environmental Systems
- Sustainability, Economics, and Equity

Unit 2: The Living World
- Ecosystem Ecology
- Global Climate and Biomes
- Evolution of Biodiversity

Unit 3: Biological and Human Population
- Population and Community Ecology
- The Human Population

Unit 4: Earth Systems and Resources
- Earths Systems
- Water Resources

Unit 5: Land Use
- Land, Public and Private
- Feeding the World

Unit 6: Energy Resources and Consumption
- Nonrenewable Energy Sources
- Achieving Energy Sustainability

Unit 7: Pollution
- Water Pollution
- Air Pollution and Stratospheric Ozone Depletion
- Waste Generation and Waste Disposal

Unit 8: Global Change and a Sustainable Future
- Human Health and Environmental Risks
- Conservation of Biology
- Global Change

Prerequisites?
Students must have completed or be co-enrolled in chemistry. Students must have an independent work ethic and be prepared to study for quizzes and exams as well as be an active and engaged learner in the classroom.
AP Test?
80 multiple choice questions in 90 minutes as well as 3 written free response questions that evaluate a student's ability to extract information from graphs, data tables, and news articles, as well as calculate solutions and problem solve.