

Board Approval Date: June 2012

Course Title: Advanced Placement Environmental Science

Credit / Hours: 1 credit

Course Description:

Advanced Placement Environmental Science

AP Environmental Science is designed to be the equivalent of an introductory college course in environmental science. This course is a rigorous, in depth study of advanced topics in environmental science. The course is aligned with the PA Standards for Environment and Ecology. Students will be challenged to engage in higher order thinking with a foundation based upon significant amounts of reading, writing, and laboratory research. Students enrolled in this course will be expected to plan to take the AP Environmental Science exam. High scores on this exam can count as college credit at some colleges and universities. There is a cost to register for the exam.

Learning Activities / Modes of Assessment:

Approximate point breakdown:

30-40% quizzes and exams

15% labs in class

15% major projects

20-30% independent assignments and homework (nightly assignments and lab reports/smaller projects)

Instructional Resources:

Text: **Raven, Hassenzahl, Berg: *Environment, 8th Edition (2012).***

Course Pacing Guide

Course: AP Environmental Science

Course Unit (Topic)	Length of Instruction
1. Introduction to Environmental Science Science and the Environmental Environmental Law, Econ, Ethics	5 Classes
2. Ecology Ecosystems and Energy Ecosystems and the Physical Environment Ecosystems and Living Organisms Major Ecosystems of the World	12 Classes
3. Populations and Pollution Human Health and Environment Toxicity Human Population Urban Environment Air Climate Change Water	19 Classes
4. Water, Air and Land Water Pollution Soil Minerals Biological Resources Land	16 Classes

Course Pacing Guide

Course: AP Environmental Science

Course Unit (Topic)

Length of Instruction

5. Food, Minerals and Energy Resources

10 Classes

 Mining and Mineral Resources

 Nonrenewable Energy

 Food

6. Our Health and Our Future

10 Classes

 Pest Management

 Solid and Hazardous Waste

 The Future