

## Syllabus for the AP Environmental Workshop

Welcome to AP Environmental Science!

This course is designed to prepare teachers for the Advanced Placement Science Course. APES is a rigorous program focusing on the applications of scientific concepts and principles to the understanding and solutions of environmental problems and issues. It is an interdisciplinary course, which builds on scientific principles from chemistry, physics, biology, ecology and earth science.

Participants will be exposed to the new Course and Exam Structure (CED), new resources, the new curriculum framework and learn how to plan their new course to address these issues.

We are going to do a number of labs throughout the week, so that you can get an idea about the diversity of labs that are associated with this course. If you are already doing specific labs we will discuss how they can be tweaked to meet the new standards.

In addition, we will spend some time discussing the new exam format as well as the rubrics and grading.

Sometime will also be allotted to work on your own syllabus which will address the new CED's and the AP audit.

### **List of Key Takeaways from the Workshop**

1. Understanding the Course
2. Planning the Course
3. Teaching the Course
4. Assessing Student Progress and Understanding
5. Becoming a member of the AP Community

### **Day 1**

#### *1. Understanding the Course*

- Previewing the Science Practices
- Integrating Skills and content
- Course Framework and the Scope of the Course
- Understanding the Big Ideas

#### *Set up Labs and conduct investigations*

- Terrestrial – Soil, Micrometeorology, Irradiated seeds

## Day 2

### *2.Planning your Course*

- Exploring the Unit Guides

### *3.Teaching the Course*

- Science Practices
- Reviewing Instructional Approaches

*Lab Investigations – Owl pellet, Biomagnification*

## Day 3

### *3.Teaching the Course*

- Science Practices (Cont)

### *Assessing Student Progress and Understanding*

- AP Exam Structure
  - Using the AP Classroom Platform
- Formative and Summative Assessments

### *Lab Investigations*

- Water Quality Labs
- Ecocolumn

## Day 4

### *4. Assessing Student Progress*

- Discuss FRQ's and MC questions

*Lab Investigations – Air quality Labs*

### *Creating your own course*

- Strategy Planning Table

### *5. Becoming a member of the AP Community*

*Sharing of Best Practices and Final Thoughts*