

# Canyon Crest Academy: AP Environmental Science

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Level of Difficulty	Estimated Homework	Prerequisites
<input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Difficult <input type="checkbox"/> Very Difficult	90 minutes per day*  *This is a general guideline for planning and scheduling purposes. A student's ability level may affect actual preparation time needed.	<b>Department</b> B or better in Biology and Chemistry and Successful completion of Physics and Successful completion or concurrent enrollment in Integrated Math 3

## Course Description

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Yet there are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. The following themes provide a foundation for the structure of the AP Environmental Science course.

1. Science is a process.
  - Science is a method of learning more about the world.
  - Science constantly changes the way we understand the world.
2. Energy conversions underlie all ecological processes.
  - Energy cannot be created; it must come from somewhere.
  - As energy flows through systems, at each step more of it becomes unusable.
3. The Earth itself is one interconnected system.
  - Natural systems change over time and space.
  - Biogeochemical systems vary in ability to recover from disturbances.
4. Humans alter natural systems.
  - Humans have had an impact on the environment for millions of years.
  - Technology and population growth have enabled humans to increase both the rate and scale of their impact on the environment.
5. Environmental problems have a cultural and social context.
  - Understanding the role of cultural, social, and economic factors is vital to the development of solutions.
6. Human survival depends on developing practices that will achieve sustainable systems.
  - A suitable combination of conservation and development is required.
  - Management of common resources is essential.

AP Environmental Science course is an excellent option for any interested student who has completed two years of high school laboratory science — one year of life science and one year of

physical science (for example, a year of biology and a year of chemistry). Due to the quantitative analysis that is required in the course, students should also have strong algebra skills. Because of the prerequisites, AP Environmental Science will be taken in junior or senior year.

### **Grading**

The grading system is based on weighted percentages. Each assignment will have a point value and be weighed according to the category it falls under. Individual teachers may make slight modifications on the weighted percentages.

<b>Category</b>	<b>Weight</b>
Homework/Projects	10%
Laboratory	25%
Quiz	15%
Exam	30%
Final	20%

### **Links**

CCA Science Department Homepage <http://teachers.sduhsd.net/ccscience>

CollegeBoard <http://www.collegeboard.com>

CollegeBoard Course Description <http://media.collegeboard.com/digitalServices/pdf/ap/ap-environmental-science-course-description.pdf>

### **Supplemental Information**

10 unit course

Fulfills physical science graduation requirement

Fulfills UC/CSU subject are “d”