

School Name: University High School Dept: Science
Requestor: Lorraine Blackmon Phone #: 520-232-5903
Leadership Office: (Check the appropriate office)
 ES MS HS JTED

Title: Environmental Science for AP
Author(s): Andrew Friedland, Rick Relyea, & David Courard-Hauri
Edition (1st, 2nd, 3rd, etc.): _____ Copyright year: 2011
ISBN (10 or 13 digits): 978-0716738497 Price: \$145.21
Subject: Science (AP) Grade(s): 9-12
Publisher: W.H. Freeman
Vendor: _____

Type of Material: (Check the appropriate box)

- Educational Software
 Textbook – needs to be delivered to the Campbell Warehouse
 Supplemental Material – needs to be delivered to the Campbell Warehouse
 Occasional Use – Doesn't need Board Approval

Select the appropriate item:

Student Edition Teacher's Edition Teacher Resource Kit

Title: Environmental Science for AP
Author(s): Andrew Friedland, Rick Relyea, & David Courard-Hauri
Edition (1st, 2nd, 3rd, etc.): _____ Copyright year: 2011
ISBN (10 or 13 digits): 978-1464156182 Price: 60.47
Subject: IB History Grade(s): 9-12
Publisher: Scott Foresman
Vendor: _____

Type of Material: (Check the appropriate box)

- Educational Software
 Textbook – needs to be delivered to the Campbell Warehouse
 Supplemental Material – needs to be delivered to the Campbell Warehouse
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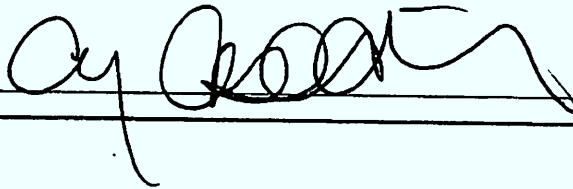
Student Edition Teacher's Edition Teacher Resource Kit

Use the additional pages sheet to add more titles.

Educational Rationale (Rationale needs to be done by requesting principal. Please X line if this statement is true.)

This request supports a Board adopted curriculum and the 2010 AZ Standards (aka Common Core).

Principal's name Ms. Amy Cislak



Office Use only

Literacy or Math Specialists Comments:

Literacy or Math Specialist (Print name): _____

Approved by Leadership Team: _____

Assistant Superintendent or designee

Date

TXT1002

Richard A. Sidi 12/16



UNIVERSITY HIGH SCHOOL



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TUCSON, ARIZONA 85711
520.232.5900

Program Overview

AP Environmental Science is a college level course that covers human interaction with the environment. Topics include earth systems, pollution, climate change, water issues, and energy resources. Success on the AP Exam gives the student one semester worth of credit toward their general education requirements in college. By taking AP Environmental Science during their freshman year, students will be exposed to the many applications of the science courses that they will take for the remainder of their time at University High. In addition, this course provides ample opportunity for cross curricular assignments and projects with the AP Human Geography class that the students take during their freshmen year.

Program of Study

The scope and sequence of the AP Environmental Science course will give students a foundation in the application of science by covering the following topics:

Topic 1: Earth Systems and Resources

- A. Earth Science Concepts
- B. The Atmosphere
- C. Global Water Resources and Use
- D. Soil and Soil Dynamics

Topic 2: The Living World

- A. Ecosystem Structure
- B. Energy Flow
- C. Ecosystem Diversity
- D. Natural System Change
- E. Natural Biogeochemical Cycles

Topic 3: Population

- A. Population Biology Concepts
- B. Human Population

Topic 4: Land and Water Use

- A. Agriculture
- B. Forestry
- C. Rangelands
- D. Other Land Use

- E. Mining
- F. Fishing
- G. Global Economics

Topic 5: Energy Resources and Consumption

- A. Energy Concepts
- B. Energy Consumption
- C. Fossil Fuel Resources and Use
- D. Nuclear Energy
- E. Hydroelectric Power
- F. Energy Conservation
- G. Renewable Energy

Topic 6: Pollution

- A. Pollution Types
- B. Impacts of the Environment and Human Health
- C. Economic Impacts

Topic 7: Global Change

- A. Stratospheric Ozone
- B. Global Warming
- C. Loss of Biodiversity

Assessment and Instruction

The content and assessment of this course is designed to align with that of the AP Environmental Science Exam. Therefore, tests and quizzes throughout the year will thus be balanced as follows:

- Earth Systems and Resources (10-15%)
- The Living World (10-15%)
- Population (10-15%)
- Land and Water Use (10-15%)
- Energy Resource and Consumption (10-15%)
- Pollution (25-30%)
- Global Change (10-15%)

Instruction will include lecture, discussion, labs, and research. Students will be assessed based on tests, quizzes, lab reports, and class participation in discussions.

Community Support

The UHS Parents Association is supplying AP Review Test books for students enrolled in AP courses at UHS.

The AP Environmental Science course will be supported by the cross curricular links with the AP Human Geography curriculum.