

**Welcome to AP Environmental Science**  
**Green Hope High School**  
**2017 - 2018**

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**Course Description:**

This course (APES) is designed to be the equivalent of a one-semester college course in environmental science. The goal of the APES course is to provide students with scientific principles, concepts, and methodologies required to understand the interrelations of the natural world, to identify and analyze environmental problem both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Each student is expected to be independent and to master some content material on your own so that we can devote more time to labs and fieldwork. Students are strongly encouraged to take the APES exam in May, for which they may receive college credit.

**Prerequisites:**

Students should have successfully completed Common Core II, Honors Biology, Honors Chemistry and completion of English 10 is highly recommended.

**Materials:**

Textbook: Miller, G. Tyler and Scott Spoolman. 2009. *Living in the Environment: Concepts, Connections, and Solutions*. 16th edition. ISBN#0-495-55671-8.

Students need to maintain a three-ring notebook containing all assignments in chronological order. Students will also need graph paper, pens, and pencils and one composition notebook per lab group for the course.

**Evaluation:**

70% - Tests  
14% - Labs  
9% - Projects  
5% - Community Service Hours  
2% - Smart Lunch Participation  
Final Exam will count 20% of the final course grade.

An Additional Opportunity to Demonstrate Mastery (AODM) is available for each unit and may be completed **once per quarter**. Students may receive a maximum of five points towards an exam grade, with no final score exceeding a 100%. The AODM must be submitted to [www.turnitin.com](http://www.turnitin.com), a plagiarism checking website, before an announced date prior to the end of each quarter. As per GHHS policy, students must complete **two tutorials per quarter**. Students are responsible for signing the tutorial book to obtain credit. **All late work is graded at 50% of the original grade** and is accepted until an announced date prior to each interim period. (100 becomes a 50, 90 becomes a 45, 80 becomes a 40, and so on)

Your final course grade is calculated using a weighted average. Each quarter grade counts as for 40% and the final exam counts for 20% of your final grade. Final course grades will not be "bumped" so please don't ask. Your grades are calculated according to this weighted average and I will not override those calculations.

**Smart Lunch:**

With the smart lunch schedule, it will be easy for you to attend review sessions. I am available in room 316 for tutorial during all of lunch every day – other than my lunch duty, 1<sup>st</sup> half on Wednesdays. I can also be available before school (7 AM) and after school (2:25 PM) when prior arrangements are made.

Students are required to attend a **minimum of two tutorial sessions per quarter**. This attendance is reflected in their grade. I STRONGLY encourage students to attend more than just the minimum number of sessions. Students are responsible for signing the tutorial book (during tutorial) to obtain credit.

**Online Resources:**

Class announcements, lecture notes, a notebook checklist and much more are available to all students and parents at <http://magee-science.homestead.com/>. Daily reminders are available through twitter by following [@mageescience](https://twitter.com/mageescience). Grades are posted for students and parents through PowerSchools. Email ([bmagee@wcpss.net](mailto:bmagee@wcpss.net)) is typically the most efficient form of communication for any questions or concerns

### **Field Experiences:**

APES has a strong field component, and students are required to participate in field experiences. During fieldwork, which is conducted at least biweekly, students will need to dress for the weather and protect themselves from insects. A cabinet for “stream boots” is provided in the classroom.

### **Community Service:**

In order to develop a sense of stewardship within our AP Environmental Science students, each is required to complete 15 hours of environmental community service. Five hours are due at the end of the first (or third) quarter with ten additional hours due by the end of the semester. If students complete more than five hours in the first quarter, the additional hours will rollover to the second. Students will receive a grade of 100% each quarter for completion of hours. Incomplete hours will receive a 0%. **If a student fails to show up for an event they signed up for or removes their name from sign-up genius within 24 hours of the event, five points will be deducted from their grade.** This deduction may be avoided by finding a replacement or emailing Ms. Magee or Mr. Rush before the posted event start time. Many opportunities will be provided, with sign-up sheets generally being posted on Thursday mornings on [www.SignupGenius.com](http://www.SignupGenius.com). If searching for your own service opportunities, please **DO NOT contact Hemlock Bluffs Nature Preserve or Lake Crabtree; they already provide us with all available opportunities.** Students completing non-GH events must fill out a service form and attach a photo. Community service activities that do not benefit the environment, while commendable, do not count towards your service requirement (i.e. Habitat for Humanity, Landscaping & Beautification Efforts, Food Bank).

### **Communication:**

Grades are posted online at PowerSchool. Detailed information about this class can be found on my website, <http://magee-science.homestead.com/>. Please check here often for community service event schedules, notes, downloads, mastery questions, and useful links. Reminders are also available through Twitter by following @mageescience. If you have questions or concerns about grades or progress, please email me (bmagee@wcpss.net).

### **Absences:**

Students with excused absences are responsible for completing any missed work within two days for each day absent. For example, a student absent two days must turn in all make-up work within four school days of their return. Students with three unexcused tardies will receive a detention and an administrative referral. It is the responsibility of the student to arrange for transportation home at the conclusion of the served detention. If tardiness becomes chronic, administrative action will occur. **Four tardies will also count as one absence when calculating senior exemptions for the final exam.** Seniors may be exempt from the final exam if they have an A average with three absences (or less), a B average with two absences (or less) or a C average with one absence (or less).

### **Green Hope Honor Code**

Green Hope High School is a school community that is committed to integrity and excellence in academics and in personal accountability. Because of this commitment, it is imperative that all members of the Green Hope High School community embody personal honor, personal integrity, and personal responsibility. Therefore, it is expected that each person at Green Hope High School will uphold the honor code. Details of the Green Hope High School Honor Code and specific consequences of infractions can be found on the [Green Hope website](#) and in the student handbook.

### **□ Course Outline:**

#### **1<sup>st</sup> Quarter (3<sup>rd</sup> Quarter)**

Environmental Problems, Their Causes, and Sustainability  
Science, Matter, Energy, and Systems  
Ecosystems: What Are They and How Do They Work?  
Biodiversity and Evolution  
Biodiversity, Species Interactions, and Population Control  
The Human Population and Its Impact  
Climate and Terrestrial Biodiversity  
Aquatic Biodiversity  
Sustaining Biodiversity: The Species Approach  
Sustaining Terrestrial Biodiversity: The Ecosystem Approach  
Sustaining Aquatic Biodiversity  
Food, Soil, and Pest Management  
Water Resources

#### **2<sup>nd</sup> Quarter (4<sup>th</sup> Quarter)**

Geology and Nonrenewable Minerals  
Nonrenewable Energy  
Energy Efficiency and Renewable Energy  
Environmental Hazards and Human Health  
Air Pollution  
Climate Change and Ozone Depletion  
Water Pollution  
Solid and Hazardous Waste  
Sustainable Cities  
Economics, Environment, and Sustainability  
Politics, Environment, and Sustainability  
Environmental Worldviews, Ethics, and Sustainability

# Student Information Sheet

Name: \_\_\_\_\_ Prefer to be called: \_\_\_\_\_ Period: \_\_\_\_\_

Address: \_\_\_\_\_

Street City ZIP

Phone Number: home: \_\_\_\_\_ YOUR cell: \_\_\_\_\_

How often do you use WCPSS Email? \_\_\_\_\_

**Questions that will help me help you:**

Do you have internet access at home? \_\_\_\_\_

Do you have a smart phone or other device that you bring to school? \_\_\_\_\_

**Questions to answer about yourself:**

An AP level class requires a great deal more out of school work than an honors level class. What after school commitments do you have that also place large demands on your time? \_\_\_\_\_

Is there anything you think I need to know in order to help you be successful this year? \_\_\_\_\_

In order to be successful in this class, I have to \_\_\_\_\_

The qualities I like most about myself are \_\_\_\_\_

The habit that most gets in the way of my success is \_\_\_\_\_

Parent/Guardian #1: _____	Parent/Guardian #2: _____
Address: _____	Address: _____
Home Phone: _____	Home Phone: _____
Work Phone: _____	Work Phone: _____
Cell Phone: _____	Cell Phone: _____
Email: _____	Email: _____

**Parental Input:**

From a parental perspective what would you like for me to know about your child? Feel free to attach a page for your response. Please do not hesitate to email me during the year at [bmagee@wcpss.net](mailto:bmagee@wcpss.net). I would also suggest following the class on twitter.

***Classroom Expectations and Safety Agreement***

I have read the safety rules and honor code (both presented in class and available on the website) along with the classroom expectations and understand the procedures for Earth/Environmental Science this year. I am also aware of the consequences if I do not follow this plan.

\_\_\_\_\_  
Student's signature and date

\_\_\_\_\_  
Parent's signature and date