

**Welcome to AP Environmental Science
Green Hope High School
2016-2017**

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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.

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.

Evaluation:

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

Grading Scale:

A: 90-100
B: 80-89
C: 70 – 79
D: 60 – 69

QUALITY POINTS (AP level)

<u>Class of 2019</u>	<u>All others</u>
A: 5.0	A: 6.0
B: 4.0	B: 5.0
C: 3.0	C: 4.0
D: 2.0	D: 3.0

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, 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.

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. If searching for your own service opportunities, please **DO NOT contact Hemlock Bluffs Nature Preserve, Lake Crabtree or Bond Park; 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. Detentions are served after school from 3 to 3:30 p.m. on a Tuesday or Wednesday. 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. The GH Honor Code Policy is posted in each classroom.

- a. **Plagiarism and copying:** Plagiarism is the use of words, ideas, and/or information that is not your own. Copying includes using another person's work as your own. Copying is not limited to "word for word" action but can apply to reading another person's idea and paraphrasing his or her idea as your own. Copying applies not only to formal assessments but also to homework and in-class work.
- b. **Cheating:** Numerous behaviors will be considered cheating. Some of these areas include, but are not limited to, the following: using cheat sheets; using former students' notebooks; using internet resources without citing them as appropriate sources; misrepresenting something as being real and actual; using cell phones to create images of tests, quizzes, and/or other assignments; and text messaging with other students regarding a test or quiz. The use of technology in cheating can occur on small assignments such as homework assignments as well as on more formal tests, essays, and projects. *Students can be guilty of cheating if they give out or are in receipt of the material.*
- c. **Discussions of material:** Discussions of tests and quizzes with other students when it is not specifically allowed by the teacher and when it is intended to give an unfair advantage to that student are prohibited under the Green Hope High School Honor Code.
- d. **Lying and fraudulent behavior:** Lying and fraudulent behavior occurs when one intentionally deceives another through words, actions, or omissions.
- e. **Veracity and integrity of work:** All work must be completed by that individual to whom it was assigned. A parent, friend, or tutor cannot complete the work for the student. The work or the project must be under the "direct control" of the student and not under the control of the parent, friend, or tutor. Inappropriate help occurs when suggestions and/or support provided exceeds the help and guidance a teacher might give in class or during a tutorial session.

1st Infraction: Student gets a zero with an opportunity to take an alternate assignment that he/she must complete within two days of the offer. The student will be given 60% credit for the alternate assignment.

2nd Infraction: Students gets a zero with an opportunity to take an alternate assignment that he/she must complete within two days of the offer. The student will be given 50% credit for the alternate assignment.

3rd Infraction: The student will receive a zero for the assignment.

Course Outline:

1st Quarter (3rd 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

2nd Quarter (4th 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. 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