



APES Syllabus 2019-2020

| | | | |
|-----------------|--|--------|-----------------------------------|
| Nathan Campbell | Nathan.Campbell@pisd.edu | x39383 | 3 rd Period Conference |
| Liz Carson | Elizabeth.Carson@pisd.edu | x39391 | 6 th Period Conference |
| Mark Yoder | Mark.Yoder@pisd.edu | x39457 | 5 th Period Conference |

Welcome to APES!

Everything we do, from drinking a cup of soda to driving our cars to purchasing a new pair of shoes to texting on our cell phones, has an environmental impact. In this course, we will use scientific principles to understand the interrelations of the natural world and the impact of humans on natural systems. We will evaluate the environmental and health risks and economic realities associated with environmental problems while working towards creating and evaluating potential solutions. It is my belief that you will leave this class much more aware of the current state of the world and your role and responsibilities in its management.

Project-Based Learning

This AP course is a PROJECT-BASED laboratory science class and relies heavily on classroom labs, field activities, and semester projects.** It is necessary that you prepare yourself for field conditions. In order to responsibly assist your classmates, you should prepare and maturely deal with heat, cold, dirt, bugs, invertebrates, and all other outdoor challenges. You risk points off if I hear “Eewwww!” or “Yuck!”

In order to perform well in this class, follow these 7 GUIDELINES:

- 1) STUDY regularly, diligently, and INDEPENDENTLY;
- 2) READ THE TEXTBOOK and all assigned SUPPLEMENTAL READINGS on time and in preparation for scheduled activities;
- 3) MONITOR ASSIGNMENTS and unit calendars;
- 4) Be PROACTIVE IN STUDYING for tests and quizzes (don't wait for the night before);
- 5) Complete and TRY YOUR VERY BEST on every project, field, laboratory, and class assignment;
- 6) Be SAFE, CONSCIENTIOUS, AND RESPONSIBLE in your use of laboratory and field equipment; and most importantly
- 7) TAKE AN ACTIVE INTEREST in this course and its material – TAKE IT SERIOUSLY – it is not easy, but IT IS IMPORTANT.

AP Exam

At the end of the AP Environmental Science course is a College Board AP exam. All students are strongly encouraged to take the AP Environmental Science exam, because students that take an AP exam while in high school, regardless of their score, generally are more successful in college courses. However, because of the amount of content in this class, little special time in class will be spent in test preparation. Students are strongly encouraged to PURCHASE AND STUDY AN AP COURSE STUDY GUIDE BOOK to prepare for the AP exam. Exam Date: Thursday, May 9, 2020, 12:15 pm.

Schedule of Topics

| Semester One Units | Chapters |
|---|------------------------------------|
| 1 - Introduction to Environmental Science | 1, 2 |
| 2 - The Abiotic Environment: Climate, Soil, & Drainage | 4 (sections 2-6), 14 |
| 3 - The Biotic Environment I: Biodiversity, Communities, and Ecosystems | 3, 4 (section 1), 5 (Sections 3-5) |
| 4 - The Biotic Environment II: Evolution, Genetics, and Populations | 5 (Sections 1 & 2) |
| 5 - Natural Resource and Pest Management | 6, 16, 17, 22 |
| Semester Two Units | Chapters |
| 6 - Human Population, Human Health, & Toxicology | 8, 7 |
| 7 - Water Resources and Pollution | 13, 21 |
| 8 - Food Resources and Production | 18 |
| 9 - Mineral Resources, Solid & Hazardous Waste | 15, 23 |
| 10 - Energy Use & Resources | 10, 11, 12 |
| 11 - Air Pollution & Climate Change | 19, 20 |
| 12 – Sustainable Urban Environment & Environmental Ethics | 2, 9, 24 |

On-Line Textbook: wileyplus.com/class/_____

Google Classroom Code: vlgh84

Materials

3-Ring Binder**: (Will have section on reflective writing)

Standard Supplies: colored pencils/markers, pencils, rulers, highlighters, etc.

Class supplies (bring first week): _____

Grading

Nine weeks

25% Minor Grades Unit Quizzes; Homework; Daily Work; Class Participation Assessments

75% Major Grades Labs; Tests (x2); Project Benchmarks (x2)

Semester

1st 9 weeks - 40%

2nd 9 weeks - 40%

Final Exam - 20%

Assignment Policy

Assignments are due on the date set by the teacher at the start of class unless otherwise stated. No late assignments will be accepted. NOT KNOWING ABOUT THE ASSIGNMENT DUE TO ABSENCE IS NO EXCUSE FOR MISSING ASSIGNMENTS. If absent, find out what assignment you missed (look at the calendar or ask a classmate).

Test, Quiz, & Lab Make-ups/Tutoring Policy

Make up work is the responsibility of the student. Check your calendar or google classroom for missed work. Test & Quiz make-ups are Monday & Wednesday 3:30-4:15pm B245 (w/ Carson) and Tuesday & Thursday 4:30-5:30pm in B261 (w/ Yoder) each week or by appointment in Room B254 (w/Campbell). Tutoring times are the same.

Make-up Tests, Quizzes, & Labs must be completed WITHIN ONE WEEK after they are originally given (grade of 0 after 1 week). Please discuss with your teacher AHEAD OF TIME any extenuating circumstances that prevent you from making your work up in the allotted time. A missed lab will count as zero. Some labs cannot be made-up due to technical reasons. **Check ahead of time if extra-curricular activities will cause you to miss an up-coming lab that can't be made up. You will need to do the lab early if possible. Tutoring** is available by appointment at the same times as make-up tests and quizzes.

Attendance

It is the responsibility of the student to make up any work they might have missed due to an absence. All absences must be excused. Please check the calendar, google classroom, and/or the make-up file for any work that might have been missed. Attendance is very important in being a successful APES student. Please attend every class period and be on time to class every day.

Ethics

All assignments submitted in fulfillment of the course requirements must be the student's own work. All assignments except those designated as "team activities" are meant to be individual efforts. Team activities are meant to be the result of equal effort by all team members. Some labs and daily assignments will be group work – others must be done individually. **For individual lab activities**, students may work collaboratively during lab activities, however, the **lab report must always be written solely by the individual student – students may not work together to write the lab.** Plagiarism is not acceptable and will not be tolerated. Plagiarism on an assignment will result in an **automatic zero** for that assignment. Receiving a copy of a team mate's lab report and modifying it for yourself is STILL PLAGIARISM!

Fieldwork

Lab work outside is a key component of the APES curriculum. Students should expect to be outside frequently for fieldwork (some days more than others) and are responsible for dressing accordingly. This may include jackets, rain boots, appropriate shoes, bug spray, and sunscreen.

** This is a cumulative class preparing for the advanced placement test at the end of the year. Students are responsible for keeping their work. **Class binders may be necessary to show to prospective universities to receive lab credit.**

*** Keep this syllabus in the front of your class binder so you may refer to policies when necessary.