LEARNING UNLIMITED PREPARATORY SCHOOL

**(AP) ENVIRONMENTAL SCIENCE 2022 - 23 SYLLABUS**

**Science Lab**

**Welcome Back!** **Welcome to Ms. Sarah’s Environmental Science Class.** Hope you had a wonderful vacation and are set to begin another year of challenges and stimulation! As budding scientists, I invite you to be inquisitive, keep an open mind, use all of your six senses, and ask questions—lots and lots of them! (I hope that I will be able to answer most of them, but if not, let’s have fun discovering the answers together!)

**Course Description:** Environmental Science is interdisciplinary, combining ideas and information from biology, chemistry and earth sciences, as well as the social science fields of economics and political science. Topics of study include water, energy, air and chemical cycles and systems, soil and biome processes, population and land development dynamics, human history and influences, community and ecosystem processes, natural resource exploitation and impacts, environmental economics and policy, and future choices. This is one of those sciences in which anyone can shine and all can find their niche!

Hands-on laboratory, field and internet-based research and investigations will be emphasized to familiarize students with contemporary research, investigative and problem-solving techniques. Students will analyze environmental problems, evaluate risks, collect data, prepare assessments, and investigate complex issues and solutions to prevent, resolve or mitigate environmental problems. Quarterly current events reports, community outreach initiatives, extensive field investigations, field trips and problem- solving exercises will focus on in-depth analysis of specific environmental topics and issues.

**Course Outline:** This year we will be using the digital version of *Enger, E. D., & Smith, B. F. (2015). Environmental science: A study of interrelationships. McGraw-Hill*. **Please provide a “thumb drive” to get your copy of the textbook.** We may use other supplementary resources as appropriate, such as Cunningham, W. P., & Cunningham, M. A. (2012). *Environmental science: A global concern* (12th ed.). McGraw-Hill Companies, Inc.

**SEMESTER 1** **SEMESTER 2**

Ch 1 – 10 Ch 11 - 19

Supplementary external chapters: (Cunningham, 2012) Ch 9-10 (Cunningham, 2012) Ch 14, 18

**Course Content:** Throughout the year, you will be exposed to experiences, activities and information that will both challenge and stimulate the scientific, ethical and community-oriented side of your academic learning. While encouraging you to be a lifelong learner, I will be facilitating your development of various life skills, especially those associated with communications, problem-solving, critical thinking, collaboration, and citizenship.

Learning Unlimited Preparatory School is committed to ensuring that students have a mechanism for collecting and presenting their best work produced throughout their academic years and beyond; I will be emphasizing this in the form of student academic digital portfolios. As such, each activity, assignment and project is designed with the idea that students will be able and are expected to use any of the course products created and completed to assemble their individual digital portfolios to prepare for **Student-Led Conferences (SLCs)**.

**Course Policies & Procedures:**  Your success in this class is dependent upon your willingness and motivation to work and learn beyond the allotted class time.

* Set aside at least **30 minutes** every night to read sections of the textbook AND to review material covered/discussed in class. DO YOUR HOMEWORK INDIVIDUALLY AND SUBMIT IN A TIMELY FASHION!!!
* Throughout the year, you will be expected to write research reports and utilize various reference sources. You will be expected to cite your references accordingly or be penalized with a failing grade for the assignment.
* Group work is expected. Please remember to work collaboratively and harmoniously!
* Assignments, projects, lab reports, etc. are expected to be turned in as per deadline date AND time. After 1 day post-deadline date, late assignments WILL NOT BE ACCEPTED*.* An assignment submitted a day after the expected due date will be subject to a 30% penalty. To better prepare you for college life, **LATE WORK IS PROHIBITED**! *If extenuating circumstances should arise, it is YOUR responsibility to communicate with the teacher prior to deadline date(s).*
* Please prepare for weekly quizzes, especially those associated with chapter vocabulary. **Review daily** and be prepared for Section Review “pop quizzes”. Learning, remembering, and utilizing the proper scientific terminology is crucial for basic success in the course.
* Those absent (unexcused) during the day of a quiz/exam will not be permitted to “make it up”. If the absence is excused, you are responsible for arranging to write the quiz/exam within one week of the absence; failure to do so, results in a score of “F”.

Students are responsible for their own academic success. **This means a student who misses a class period for any reason is responsible for determining the day’s assignment and completing the requisite work.**

**Supplies & Materials:** You are expected to provide your own supplies, unless otherwise provided by the teacher. You are solely responsible for acquiring and maintaining these items: personal notebook/folder; USB flash drive, scientific calculator. **Access to a computer, tablet or e-Reader will be necessary to utilize the digital format of the textbook AND to complete assignments.**

Each day’s lessons and major assignments/projects will be available digitally and can be found at **msbeland.weebly.com**.

Assignments will be submitted via the appropriate category in Ms. Beland’s ES Google Classroom.

\*\*\*Contents of this syllabus, course policies and procedures are subject to change, by the teacher, with prior notice to students before implementation.

**APES:** You have the option to choose to take the AP version of this course. The resources will be the same. The difference lies in the pacing, assessments (will include FRQs), expectations and GPA multiplier. An AP exam fee and agreement form are also required.

**REMEMBER: CHEATING AND PLAGIARISM ARE PROHIBITED!!**

 **NO FOOD OR BEVERAGES IN THE CLASSROOM!**

**Grading Distribution:** Your grades will reflect a weighting distribution according to the following categories:

 ASSIGNMENTS [Homework/Participation/Class Work/Projects/Labs] = 50% ASSESSMENTS [Quizzes/Tests] = 50%

**Grading Scheme: A** = 90 -100% **B** = 80 – 89% **C** = 70 – 79% **D** = 65 – 69% **F** = <65%

**Quarter 1**: 20 % **Quarter 2**: 20% **Mid-Term Exam:** 10% **Quarter 3:** 20% **Quarter 4:** 20% **Final Exam:** 10%

**\*APES:** You will be exempt from the final exam. Hence, your class grade will be composed of:

**Quarter 1**: 20 % **Quarter 2**: 20% **Mid-Term Exam:** 20% **Quarter 3:** 20% **Quarter 4:** 20%

*APES Unit Testing and THE EXAM*

*Students should expect weekly assessments, in the form of quizzes and chapter/unit tests. Chapter/unit tests will consist of two parts: (1) questions directly associated to the material from the textbook; (2) questions similar to APES multiple choice section.*

*The APES Exam is a two-hour and 40-minutes long examination, consisting of two parts: (1) multiple choice selection of* ***80*** *questions, worth 60% of the grade; and (2) free-response (FRQ) section consisting of* ***three*** *questions, worth 40% of the grade. The multiple choice section is allotted 90-minutes; the free-response section is allotted 70-minutes. The number of multiple-choice questions taken from each major topic area is reflected in the percentage of the course as designated in the outline of topics.*

*The FRQ section emphasizes the application of the principles in greater depth; you will need to organize answers to broad questions, demonstrating reasoning and analytical skills, as well as the ability to synthesize material from several sources into cogent and coherent essays. There are three types of FRQs:*

 *Question 1: Design an investigation (10 pts)*

 *Question 2: Analyze an environmental problem and propose a solution (10 pts)*

 *Question 3: Analyze an environmental problem and propose a solution doing calculations (10 pts)*

*AP Environmental Science Exam is scheduled (LATE EXAM DATE) for* ***May 17, 2023 (afternoon).***

**School Policies & Procedures:** Please refer to the Student Parent Handbook located online (*http://www.luschool.com/student-parent-handbook.html*) for further information regarding school-wide policies and procedures.

**Contact:** Daily lessons can be viewed on: **msbeland.weebly.com**. You may address any further concerns, deliver assignments, projects, lab reports, etc. to the following email address: sbeland@luschool.com. If you desire immediate feedback/response, please send me a **Google Chat**.

**\*\* Earth provides enough to satisfy every man’s needs, but not every man’s greed!—Mohandas K Gandhi\*\***