

# Environmental Science: The intersection of policy, science, and ethics

Ms. Kerrigan

Syllabus 2019-20

Room G-06

## Course Overview

Environmental science is the study of all living things, their interactions, and the role humans play in their ecosystems.

This course provides an opportunity for students to develop scientific process skills, critical thinking strategies, laboratory techniques, and an understanding of the fundamental principles that govern living organisms.

A basic breakdown of what we will cover each advisory can be seen in the chart to the right →

ADV 1	<b>Endangered Species Act</b>
	Food webs, trophic levels, ecological relationships, invasive species, ecosystems, population growth, carrying capacity, land use, loss of biodiversity, human population dynamics, ecological succession
ADV 2	<b>Clean Air / Clean Water Acts</b>
	Hydrology, cycles (water, carbon, nitrogen, phosphorous), agricultural runoff, Global Water Resources and Use (Freshwater/saltwater; ocean circulation; agricultural, industrial, and domestic use; surface and groundwater issues; global problems; conservation)
ADV 3	<b>Paris Climate Accord</b>
	Energy concepts and consumption, fossil fuel resources and use, nuclear energy, hydroelectric power, energy conservation, other renewable energy sources, global warming
ADV 4	<b>Superfund Act</b>
	Pollution Types, Impacts on the Environment and Human Health, Economic Impacts (Cost-benefit analysis; externalities; marginal costs; sustainability), big picture connections, solutions to global problems

### Basic Classroom Expectations:

In order to maximize the time spent in the classroom, students are expected to...

- Show **respect** to themselves, the school, other people, and the property of others.
- Demonstrate **effort** by being attentive, staying focused, and working hard.
- Come to class **prepared** and on time, and be willing to **participate** in class discourse.



### Required Materials (due by MONDAY 9/9):

-A **3-ring binder** with **lined paper** (to be brought to class EVERY DAY!)

Details: EVERYTHING we do in class (notes, warm-ups, labs and classwork) will be kept in this binder, and these materials may be used for reference during open note quizzes. Because these binders will be periodically collected and graded, **DO NOT use it for more than one class.**



### **!!!!Text Message Reminders!!!!:**

Sometimes it's hard to remember things! That's why extra reminders about upcoming assignments will be sent by text message. Parents AND students are **highly** encouraged to sign up for free text-message reminders. Directions for signing up can be found on the last page of this overview.



**Technology and Electronics:** In order to utilize the many resources available this year, students MUST have internet access at least once each week. If there is no internet access at home or by smartphone, computers are available for student use in the classroom, the media center, and the counseling suite.

To minimize in-class distractions, unauthorized use of personal electronics during class is strictly prohibited. Failure to meet this expectation will result in confiscation of student device. **Cell phones will be collected at the beginning of every class.**



### **Attendance:**

Students are expected to attend class on time, every day. Failure to do so will have a negative impact on a student's participation grade. If a student does miss class, he/she will only be excused if they provide approved documentation of a doctor's appointment, illness, or family emergency to the school attendance officer. Grading and retention decisions for this class related to student absences shall follow guidance articulated in DCMR Title 5, and as described in the Attendance Policy.



### **Late/Make-Up Policy:**

**If a student misses class for any reason, it is expected that they *proactively* work to find out what they missed as soon as they return to school.** Students will have advance notice of tests, quizzes, and upcoming due dates for assignments. In addition, all class material (including notes) will be accessible online and/or hanging in the 'extras' folder in the classroom.

Work turned in late due to a **verified excused absence** will be subject to the DCPS Grading and Reporting Policy. Work not turned in on time due to any reason **other than a verified excused absence** will be subject to the following grade penalties depending on which assignment category it falls under:

- **Participation** - Will receive 0% credit with no chance to make up. Assignments missed due to an excused absence will receive an "E" and will not be counted towards the class grade.
- **Practice and Application:** Will be worth **half credit** of the earned grade on the assignment. Assignments missed due to an excused absence will be worth full credit when turned in upon returning to class according to the DCPS Grading and Reporting Policy. No late work will be accepted after the end of the semester it was assigned.

- **Assessments:** Tests and quizzes can be made up with no penalty. Other assessments (projects, papers, etc.) will receive a 10% grade penalty for each business day late with the maximum deduction being 50% the last day to turn in late assignments of take make-up tests and quizzes is the last day of the advisory.
- In ALL cases, it is the student's responsibility to initiate make-up work.

**Please note: If a student is absent for an extended period of time, or has other extenuating circumstances, the teacher will make appropriate accommodations.**



**Extra Credit:**

Throughout the year, students will periodically be given opportunities to extra credit points by turning in projects early, and correctly answering bonus questions on exams.

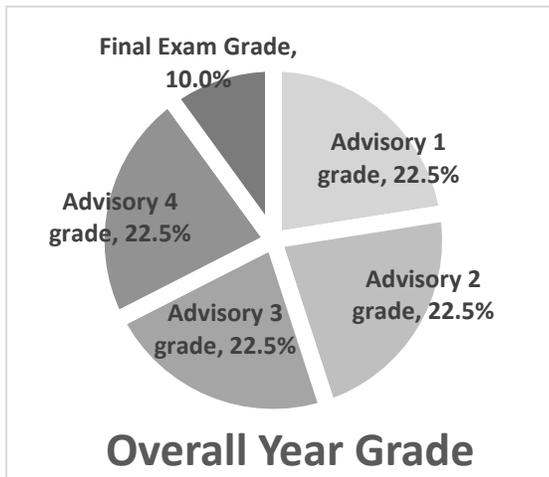
**Contact Info and Office Hours:** Please don't hesitate to contact me with via email ([KerriganBiology@gmail.com](mailto:KerriganBiology@gmail.com)) with any questions or concerns.

I am available to meet with students every day during lunch. Meetings before or after school are available by appointment.

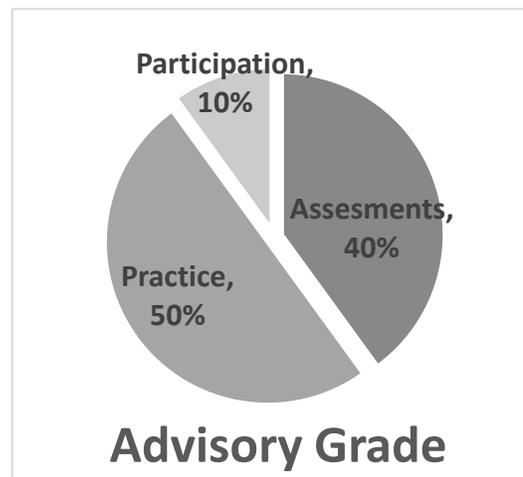
**Grade Breakdown**

---

**Overall Year Grade:** A student's overall grade in the class for the year will be the average of all four advisory grades (each 22.5%) and a final exam grade (10%).



**Advisory Grade:** A student's advisory grade will depend on their performance in 3 categories: Assessments (40%), practice (50%), and participation (10%).



## Advisory Grade Details

---

### Assessments (40%):

Quizzes: 2-3 times each advisory, students will complete a short quiz (sometimes open-note) in class assessment to help evaluate how they are doing with the material being covered in class.

Advisory exams: Each advisory, students take a comprehensive exam that evaluates their mastery of the material presented during class. Prior to each exam, students complete and review a detailed study guide. Independent study outside of class is HIGHLY encouraged.

Projects: Typically requiring out-of-class time, students will create some kind of work product to show detailed understanding of a specific topic. Grading rubrics will be provided.

### Practice and Application (50%):

Weekly Online HW: Online homework is graded based on completion, and will be due Mondays at midnight. Each assignment requires students to answer questions about a short video or article to supplement the material we cover in class. Links to the online assignments will be sent to students and parents via remind.com text messages

Classwork and Labs: Other assignments may be given to students during class to be completed as directed. These are typically graded when binders are collected.

### Participation (10%):

Each class day, participation points are awarded for being on time, completing the warm up, following class rules, and actively participating and engaging in classroom activities, discussions, and group work.

## If you have not already done so, please SIGN UP FOR CLASS TEXT-MESSAGE REMINDERS!

Both parents and students are HIGHLY encouraged to sign up for our class text-messages (sent through remind.com). This is a free service, you may opt out at any time, and you do not need to download the app. To sign up, follow the directions below:

**Environmental Science:** Send text message: **@EnSci1920** to: **81010**

(If prompted, please respond with your name. You do not need to download the app)

**PARENTS:** please be sure to complete the **online parent/guardian survey ASAP** (it counts as a homework assignment!) This gives me valuable information about you and your student to help us make this a successful school year!

**Parent/Guardian Survey url:** <https://forms.gle/pR8hRYLHZ2AVFQwQ9>

Students: please be sure to complete the **online student survey** ASAP (it counts as a homework assignment!) This gives me valuable information about you and your student to help us make this a successful school year!

**Student Survey url:** <https://forms.gle/5GHi5hpghjPQRhUm6>

EdPuzzle

Students will have weekly homework on EdPuzzle.com. Students should put the code in that corresponds with their class period and complete the homework by each Monday at midnight.

**EdPuzzle Codes**

- 1: hutvko
- 3: kewarso
- 5: pitcazu
- 6: zebasan

---

**Student/Parent Consent Form (Detach and return to Ms. Kerrigan by Monday 9/9)**

**By signing below, you are indicating that you have read and understand the above procedures, expectations, policies, obligations, evaluation criteria, and course content outlined in this syllabus:**

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Full Name \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Full Name \_\_\_\_\_