

# Earth and Space Science



2020 - 2021 ~ Ms. Borgstrom

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## Course Materials:

- Daily access to computer with internet
- Pens, pencils, and scissors
- Calculator
- Lined paper/binder

## Course Description:

Earth and Space Science is a project and laboratory based course that develops student critical thinking skills, knowledge of scientific principles and concepts to expand knowledge of the functioning of the universe and the planet we inhabit.

## Online Attendance Expectations:

Students should arrive on time to the mandatory class sessions on the scheduled day. Make sure to be in a setting that allows you to focus your attention on Environmental Science. Students are expected to have their camera on during the majority of class sessions but should mute themselves unless active in a discussion. Make sure to review the NWC student online learning expectations that are included below.

## Course Activities

### Performance Tasks

Students are asked to demonstrate their knowledge of basic science concepts as well as specific environmental principles. Performance tasks including design challenges, modeling of core concepts, and inquiry activities.

### Science Engineering Practices

There are a variety of labs that will be performed throughout the course. Students will be provided with scientific guidelines for formal lab reports. Online simulations and

observation labs are incorporated into the course.

## Core Ideas Practice

All class and homework designed to further your knowledge and practice learned concepts is placed in your Earth and Space Science Portfolio. During online learning students will maintain a virtual portfolio via Google classroom.

## Assessments:

The online assessment tool Quia will be used for periodic review and quizzes.

Major assessments are in the form of projects that include research, organization, and presentation skills and ask students to think critically about topics studied in Earth and Space Science.

## Late Work and Academic Integrity:

Some major assignments will be accepted as late work, this does not include bellringers or online group work. Late work is accepted at up to half credit within one week from the due date.

Plagiarism of any type is not acceptable. This includes, but is not limited to:

- Copy and pasting information directly from a website. You should be reading, processing, and transcribing information using your own brain and words.
- Using work from other students or from former classes. Collaboration is done during group work and it will be made clear when this is appropriate.

### Distance Learning Grading:

Category	Percent of grade
Core Ideas Practice	25%
Science and Engineering Practices	25%
Performance Tasks	25%
Assessments	25%

### Unit Content:

Unit	Key Concepts	Example Activities
<b>Fall Semester</b>		
Unit 1 Space Systems	Characteristics of our moon Features of our solar system Characteristics of the Sun Lifecycle of stars	Lunar Model Sunspots and solar activity Modeling the solar system Planet project
Unit 2 History of Earth	Formation of Earth Interior of Earth Plate tectonics Meteorites	Analyzing volcanoes and plate boundaries Interior of Earth Model Eras of Earth Project
Unit 3 Earth Systems 1 - Geology and Hydrology	Earthquakes and Volcanoes Rock Cycle Weathering and Erosion Importance and properties of water Changes in Earth systems	Mapping Earthquakes Candy Weathering Water lab Feedback loops
<b>Spring Semester</b>		
Unit 4 Earth Systems 2 - Interacting Systems	Carbon cycling History of Life on Earth Biomes	Carbon cycle game Photosynthesis Lab Biome project
Unit 5 Weather and Climate	Atmosphere circulation Weather patterns Climate systems Climate Change	Predicting the weather Greenhouse Lab Climate modeling
Unit 6 Human Impact and Sustainability	Natural Resource Extractions and Use Pollution Sustainability	Oils Spill lab Biofuels lab Earth 2.0 Project

# NEWWEST Charter

## Online Learning Student Expectations 2020/21 School Year

### 1. Student Dress

- a. Students will be dressed in clothes (not pajamas) and ready for each class on time.

### 2. Camera

- a. New West teachers strongly recommend that students turn their cameras on during live classes. Why?
  - i. A noticeable increase in student engagement
  - ii. Teachers can better pace lessons based on the visual feedback of their class (confused, engaged, etc)
- b. We respect that everyone has a unique living arrangement and that some students may feel uncomfortable being on camera. We recommend that a student in this situation turn the camera on but point it to the ceiling. This way the student can still respond with hand signals (thumbs up or down) as a way of staying engaged during class.
- c. Teachers will require cameras to be on while students are taking tests or other assessments. Students will have advanced notice of this and can contact the teacher within 48 hours of the assessment to make alternate arrangements for not having their camera on.

### 3. Attending Scheduled Additional Support Or Office Hours

- a. Students that have been identified by their teachers as needing extra support on individual assignments or assessments will be required to attend additional support hours scheduled by the teacher. At these support sessions, students have the opportunity to better understand concepts and potentially raise their grade.
- b. Students that miss a scheduled support session will have their parents notified by the teacher and/or school administration.

### 4. Student/Teacher Communication

- a. Teachers expect students to return their emails/texts/or phone calls within 24 hours. Teachers will respond to students first and parents second and within 48 hours of receiving an email.
- b. We strongly recommend students to check and read their email every school day.

### 5. Late Work

- a. Each individual teacher will clearly state their Late Work policy on the class syllabus and will go over their policy in the first days of class. Students with excused absences can turn in late work for full credit within time limits set by each teacher.
- b. Accepting late work from students with unexcused absences is at the teacher's discretion.

### 6. Abide By New West Netiquette. Netiquete refers to the acceptable way of communicating on the Internet.

- a. *Rule 1. Remember the human.*
  - i. These are real people in your online classes. Be kind and respectful in all your interactions

- b. Rule 2: Adhere to the same standards of behavior online that you follow in real life and in school
  - i. Your online classes are a profession and education setting - please act with professionalism
  - ii. Be mindful of what you wear or what is being shown on your webcam
  - iii. Please don't attend class lying in your bed.
  
- c. Rule 3: Know where you are in cyberspace (code switching)
  - i. School work should be written in academic language not texting or social media jargon.
  - ii. Please limit your use of emojis, memes, and gifs in online chats or assignments.
  
- d. Rule 4: Respect other people's time and bandwidth
  - i. Know why you're talking or know why you're not talking in classes
  - ii. Don't control the conversation or discussion. You're not the center of the universe.