



## Marine Science 2024-2025

### Class and Contact Information



Eliza Hepburn



ehepburn@rsd7.net



503.667.3186 ext 4380



Room 211

### Course Overview:

Welcome to Marine Science! In this course, students will gain an understanding and appreciation of the physical and chemical components of the marine environment, the diversity of marine life and ecosystems, and the impact of human activities on marine ecosystems. We will focus on academic literacy, scientific inquiry, and creative problem-solving skills through a variety of engaging assignments, projects, and hands-on labs. You are going to enjoy this science class, but we are going to do a lot of work!

### Course Topics:

Topic	Description
Properties of Water	Properties of water; Density, Salinity, Temperature, the Coriolis effect; Layers of the ocean; Upwelling & downwelling
Ocean Energy	Oceanography, Ocean floor geology, Currents, Tides, Ocean Waves
The Intertidal Zone	Water properties of Oregon Intertidal Zone; Geology of the PNW coastline and sea floor features; Marine Biology of the PNW, organisms present, feeding patterns, biotic vs. abiotic factors.
Coral Reefs	Water properties of Coral Reefs; Geology of the sea floor; Marine Biology of coral reefs, organisms present, feeding patterns, biotic vs. abiotic factors.

**NOTE:** *This may change in order and in content to best meet the needs of the class!*

### Required Materials

- Chromebook
- Notebook or Binder
- Chromebook Charger
- Pen or Pencil/Eraser

### Grading:

Students will be evaluated using a **variety of assessment techniques**, including tests, quizzes, lab assignments, readings, projects, and homework. At the beginning of each unit, you will receive a packet. This packet will include guided note pages, activities, and labs. Packets will be turned in for a grade at the end of each unit. Notes, Labs, and assignments will be worth 30% of your grade and quizzes, tests, and projects will make up 70%.

Type	Description
<b>Notes</b>	Guided note pages will be provided in your packet. This will be graded based on completion. PowerPoints and other materials will be posted on Schoology after class each day.
<b>Lab/Activities</b>	Labs/Activities will be graded based on class participation and completion of worksheet.
<b>Assignments</b>	Additional worksheets will be given to help continue practice skills centered around the topic of the week. Graded on completion and accuracy.
<b>Quizzes/Tests &amp; Projects</b>	Quizzes will be used to check understanding during the unit. Packets may be used on quizzes, but not on unit tests.

#### **Late Work:**

- I will accept late work up until 2 weeks after the due date OR the end of the unit.
- Any labs or activities missed during class time can be made up, but it is your responsibility to ask for this!

#### **Absences From Class:**

- If a student misses a class, it is **their own responsibility** to check Schoology or ask a classmate for notes or activities and complete them. I can always be reached by email with any questions!
- Extensions may be given if a student provides a valid reason or other form of communication the day they return to school.

#### **Cellphones & Headphones:**

- While I do not ban cellphones or headphones in class, it is expected that you will be on task and working.
- If this becomes an issue or distraction for whatever reason, you may be asked to put it away or leave it on my desk for the class period.
- I will trust you to use cellphones & headphones appropriately until you show me that you cannot handle this responsibility.
- Cellphones are never allowed to be out during a test or a quiz. Any student using a phone during a test will receive an automatic zero.

#### **Class Expectations:**

- **BE RESPECTFUL** -- Respect the needs of everyone, from your best friend to your arch nemesis, as learners and people. You should be able to work with anyone in the classroom and not block their learning.
- **BE SAFE** -- Everyone should feel and be safe physically, mentally, and emotionally. Mind the things you do and say.
- **BE HELPFUL** -- "Helping your classmates is the highest form of scholar-ship." We are in this together, so help a classmate out.
- **LISTEN** -- Listen carefully. Not only is it respectful and important to safety, but you can learn something and help others. You get a little smarter too!
- Students will be asked to take a break if they are having a hard time working with these rules. Repeated offenses will result in a referral to administration and a phone call home.