

8/2/24

Ms. Rodriguez

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Marine Resource and Technology

Course Description:

Marine Resources and Technology focuses on the marine environment's physical, chemical, geological, and biological aspects. Topics include oceanography, ecology, physiology, behavior, fisheries, and conservation. Students will also explore different marine technologies used in marine science and marine exploration.

Culture of Learning:

This class re-reinforces PSSC's school wide agreements: Be Present, Be Respectful, Be Engaged and Be Professional. Each PSSC Classroom is responsible for re-enforcing the School Wide Agreements as well as developing Classroom Behavior Agreements. These agreements will be upheld through a positive, progressive support system including individual check-ins with students, positive reinforcement strategies, contact with families, interventions from Dean/Counselor, etc.

My Belief System:

All children are unique and must have a stimulating educational environment where they can grow physically, mentally, emotionally, and socially. It is my desire to create this type of atmosphere where students can meet their full potential. I will provide a safe environment where students can share their ideas and take risks, regardless of gender, culture, or ethnicity. I believe there are five essential elements conducive to learning. (1) The teacher's role is not just a guide but a person willing to learn from their students. (2) Students have different learning styles that must be incorporated into each lesson, such as hands-on activities. (3) Students need the opportunity to practice skills in a safe environment. (4) With the growing use of technology, technology must be incorporated into the school day. (5) For a student to be able to learn, the teacher must be organized, flexible, and have high expectations for their students.

PSSC Belief Statement

We are Champions of Choice

As Champions of Choice, we believe in the power of education to transform lives and create opportunities.

Together, let us strive for excellence and reach new heights of achievement.

District Mission Statement

To equip children and their families with knowledge and skills needed to make healthy choices throughout their lives.

"EVERY STUDENT in Highline Public Schools is known by name, strength and need, and graduates prepared for the future they choose." – Highline Promise

Student Learning Outcomes:

This course is aimed at (i) introducing oceanography, ecology, physiology, behavior, fisheries, and conservation, and (ii) developing "higher-level" skills and knowledge that will be important to succeed in the career of Marine Resource and Technology as a scientist.

Specific Outcomes:

- Describe the major physical and chemical processes in marine environments, and how these processes influence the distribution and abundance of aquatic organisms.
- Recognize the diversity of marine organisms, their evolutionary history, biogeography, and interactions with them.
- Analyze and interpret different types of data used in marine biology.
- Form hypotheses about marine-related scientific questions and understand how experiments are executed to test those hypotheses.
- Enhance collaborative skills by group participation in class and laboratory investigations.

- Understand different technologies used in marine science.
- Understand a salmon hatchery and rearing salmon for conservation.
- Understand how to rear Oyster larvae and support local conservation efforts.

Life & Employability Skills:

- Listening
- Empathy
- Conflict Resolution
- Cooperative
- Communication
- Respect for others

Credits Offered:

Credits per Semester: 1.5

Equivalency Credits issued at 2nd semester: CTE, ELA, Lab Science

Certification Opportunities:

- OSHA 10
- Employability Skills
- CPR & First Aid

Grading Policies:

We use Standards-Based Grading to assess student learning as per Highline Public Schools.

The grade scale is as follows:

- 4** (A; 3.2 - 4.0): EXCEEDING standard
- 3** (B; 2.4 - 3.19): MEETING standard
- 2** (C; 1.6 - 2.39): APPROACHING standard
- 1** (D; 1.2 - 1.59): BEGINNING standard
- NC** (NC; 0 - 1.19): NO EVIDENCE. The NC does not earn credit for a course.

Students will be evaluated individually based on their mastery of various skills and standards. Feedback to students will be given on Google Classroom.

Reassessment Opportunities:

Re-assessment opportunities will be clearly published and determined by the instructor. Not all assignments and assessments are eligible for reassessment. The instructor will clearly communicate what is and is not re-assessable. Reassessment opportunities will be within the unit. After a unit has closed, reassessment will not be available. *Labs and Field Experience cannot be made up.*

Teaching methodology:

- **Pre-lecture preparation:** When given, please complete the assigned readings and/or videos before coming to class.
- **Lectures:** Class sessions will be used to practice the concepts you have read about using in-class assignments (e.g., worksheets, discussions, and hands-on simulations). We will use a combination of individual and group work.
- **Labs:** The lab sessions will comprise a mixture of instruction, guided and independent research.
- **Field Work Experiences (FWEs):** Students will participate in FWEs in collaboration with guest speakers, beach surveys, salmon hatchery work, and site visits that enhance and connect to what they are learning in the classroom.

Required Materials:

- Reusable Water bottle.
- District Chromebook- NO PERSONAL DEVICES (A class set of laptops may be used during class time and must be returned before the student leaves for the day.)
- Writing utensils.
- Composition Notebook.
- A lock for your locker if using a locker.

Optional:

- A set of clean clothes to be left at Marine Tech in case of emergency.
- Personal Boots (We have community boots)
- Personal Raingear (We have community Raingear)
- Individual healthy Snacks to place in lockers.
- Nitrile gloves

A donation of healthy snacks or school supplies would be greatly appreciated.

Program Costs: There will no longer be any classroom fees and uniforms will be provided. If you want your uniform customized, then students may need to pay.

Uniform and Dress Code Requirements:

Students must wear a lanyard with their student ID and PSSC provided attire and/or program-specific uniform as required by the instructor.

Students are expected to dress appropriately when attending class. Clothing cannot have printed words or symbols that promote the use of illegal substances, weapons, or gang affiliation.

Students will be working in various weather conditions and laboratory situations. Students must wear closed-toed shoes at all times, no crocs. Torsos must be covered. On certain days, students may be required to wear PSSC professional attire, which will be provided. Students with long hair must bring items to tie back their hair when needed.

Highline Public Schools Dress Policy: <https://bit.ly/3Yla1Xs>

Course Technology: Google Suite (Classroom, Slides, Doc, Sheet)

Work-Based Learning (WBL):

WBL is an instructional strategy that provides students with career exploration opportunities and hands-on learning where knowledge gained in CTE (Career and Technical Education) courses can be applied to real-life work experiences. Every work-based learning program aims to prepare students for the next generation of the workforce. PSSC students are eligible to participate in Work Based Learning, either **Instructional** or **Cooperative**, through their CTE program and may be able to earn elective credits.

Common WBL opportunities

- Job placement in a career pathway
- Internships
- Clinicals
- Externships

All PSSC students will participate in Work Based Learning.

Leadership:

Leadership is a key component of the Marine Tech Program, where your student can be a member of (CTSO or equivalent). The purpose of (CTSO or equivalent) is to encourage the development of vocational understanding, leadership qualities, social awareness, and a sense of responsibility to school and community. It is each student's choice as to how active they will become in (CTSO or equivalent).

List of opportunities:

- Career and Technical Student Organization (CTSO)- ROV Mate Competition (Afterschool Club)
- Community Service- ROV in a Bag through ROV Club, Beach Naturalist with the Environmental Science Center.
- Work-based learning- Soos Creek Hatchery (TBD) & Salmon Hatchery at Seahurst Park Marine Tech facility

Cell Phone Policy:

Cell phones are to be used for educational purposes only as directed by the instructor. Phones will be out of sight during instruction. If students are not able to be responsible with their phones, phones will be collected and stored in the phone charging station during the class period.

Highline Public Schools Attendance Policy: <https://bit.ly/4cgBO4K>

The seat time mandate for CTE courses in Washington ensures students receive sufficient instructional hours and hands-on training time to master necessary technical skills. Prescribed minimum seat time safeguards the quality of CTE programs by allowing for in-depth classroom learning, adequate lab practice on equipment, and fulfillment of certification requirements. Upholding seat time standards is crucial for preparing a workforce with job-ready expertise meeting industry needs.

Therefore, it is critical that students are present. Whether excused or unexcused, missed time is missed time.

1. If a student is tardy, they must complete the QR code in their classroom. It is their responsibility as a student to complete the QR code so their absence can be corrected to a tardy. If they do not complete the QR code, the student will be marked absent.
2. As a professional courtesy, please contact the course instructor via email, Google voice text or phone call.
3. Absences may be excused by any of the following methods within 48 hours of the absence:
 - a. Phone call to PSSC Attendance Specialist, Kelsey Gomez (206-631-7353)
 - b. Email to PSSC Attendance Specialist, Kelsey Gomez (kelsey.gomez@highlineschools.org)
 - c. Hand-written note turned into PSSC Attendance Specialist Kesley Gomez
4. Please include the following information in the note, call or email:
 - a. Student Name
 - b. Parent Name
 - c. Date of the absence
 - d. Reason for the absence
5. Prearranged absence forms are in the office. The form must be completed with all required signatures before departure date. This form will be shared with your home school as well.
6. Reassessment opportunities will be clearly published and determined by the instructor. Not all assignments and assessments are eligible for reassessment.

PSSC Student Handbook: [CLICK HERE TO VIEW](#)

Year 2 Eligibility: All Year 1 PSSC students will have quarterly check-ins with their PSSC teachers, student success dean, counselor, and families to assess performance in their program, needed supports, and progress towards mastery of content and skills necessary for Year 2 programming. All information will be shared with the home school support staff.