

SC7450/ Marine Science Syllabus

Course Title----- Marine Science
Course Number----- SC7450
Grades:----- 09-12
High School Credit Value:----- 0.5
Prerequisites:----- None.

Course Length:----- Regular courses: 17 weeks
CR: 9-17 weeks.

Course Time:----- Regular courses: 17 week schedule: 75 - 90
minutes per school day (6-7.5 hours per
week)
Credit Retrieval: 75 - 90 minutes per
school day (6-7.5 hours per week) until
course completion.

{ Course Description }

Marine Science covers the basics of seafloor geology, seawater chemistry, currents, waves, shoreline geography, and marine organisms. Students will show understanding and application of scientific concepts and principles. Also, they will demonstrate understanding of the nature and contexts of science and technology. This course helps meet the state minimum requirements of 2.0 science credits in addition to it meeting a lab requirement. Please check with your district for more specific requirements.

Course Materials:

Technical requirements include the ability to download and use freeware such as Adobe Acrobat and Flash. PowerPoint presentation software is also recommended.

State Alignments

Washington State Standards guided the design of the course. Learning expectations are found within the course itself.

These are the standards for marine science.

1. In complex systems, entirely new and unpredictable properties may emerge. Consequently, modeling a complex system in sufficient detail to make reliable predictions may not be possible.
2. Scientific progress requires the use of various methods appropriate for answering different kinds of research questions, a thoughtful plan for gathering data needed to answer the question, and care in collecting, analyzing, and displaying the data.
3. Conclusions must be logical, based on evidence, and consistent with prior established

knowledge.

4. Science is a human endeavor that involves logical reasoning and creativity and entails the testing, revision, and occasional discarding of theories as new evidence comes to light.
5. Public communication among scientists is an essential aspect of research. Scientists evaluate the validity of one another's investigations, check the reliability of results, and explain inconsistencies in findings.
6. It is important for all citizens to apply science and technology to critical issues that influence society.

Course Outline

17 Week Session

Unit 1 The Nature of Oceans, 3 weeks

Unit 2 Physical Oceanography, 3 weeks

Unit 3, Marine Ecosystems, 3 weeks

Unit 4, Life in the Marine Environment, 3 weeks

Unit 5, Marine Reptiles and Mammals, 3 weeks

Unit 6, Human Impacts on the Marine Environment, 2 weeks

Course Work

Students are expected to put in 6-8 hours per week to complete their lessons. Teacher may return assignments and ask student to make modifications if it does not meet minimum standards.

Assignments include formative assessments, summative assessments, research essays, and a semester final.

Assignments are submitted online, with rare exception. Students may contact their teacher through email, by phone, in live chat session, or during live online study sessions. Weekly academic contact is strongly recommended for students to be successful in this class.

Units and lessons should always be done in the order presented on the Learning Plan Contract. Tests can only be taken once, and many are timed. Students should study all unit instruction and lessons prior to taking tests to prepare themselves.

Grading

Lesson assignments will be graded using the following criteria:

- Proper spelling and grammar should be used at all times.
- Lab write-ups should follow standard format provided in the course.
- All lesson answers should be paraphrased from the information in the sources. Copying and pasting from sources will not be tolerated. Students must write answers in their own words.

Projects will be graded using the following criteria:

- All prescribed formats will be followed.
- Bibliographic citation of all web resources must accompany the project, including the URL, name of the web site, and author or editor if available.
- Copying or plagiarism will not be tolerated. Plagiarism may result in no credit given for the lesson or project.

Revision Policy:

- Students may be either given a score for submitted work or work may be returned for revision.
- Students have one opportunity to revise and return work for credit.
- Revised work should be returned to the teacher in a timely manner.
- Revised work will still be worth up to full credit.
- Work submitted in bulk either during the semester or especially at the end of the semester will not be available for revision and will be scored as submitted.
- Unit tests may only be taken once and semester projects may not be revised.

Occupational Credit:

This course may qualify for *occupational credit. Please consult your school counselor for further clarification.

*Please note that FLA901 (Sign Language) does not qualify for occupational credit.

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