

SC7450 Marine Science Syllabus

Course Basics			
<b>Course Code:</b>	<b>Grade Level:</b>	<b>Credit Value:</b>	<b>NCAA Approved:</b>
SC7450	High School	.5	N/A
<b>State Course Code:</b>	<b>Course Length:</b>	<b>Course Time:</b>	<b>FWPS Standards (link)</b>
O3005	18 Academic Weeks	56 Minutes per day OR 4 hours 40 minutes each week	<a href="#">Priority Standards</a>
<b>Prerequisites:</b>			
<b>Required Materials:</b> Internet access, computer, ability to print, modern OS/software/web browser, headphones with microphone- <i>if not built into computer</i> , webcam for virtual sessions and some possible assessments.			
<p><b>Course Description:</b> 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. In addition, 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. Please check with your district for more specific requirements.</p> <p>Activities: Students will be doing research online, performing and designing experiments, taking quizzes, and writing up formal research papers. Some of the activities are on the computer, others are completed in the kitchen and then the formal write up submitted online. Many of the projects are "hands-on" with the final product submitted online.</p>			

Instructor Information	
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Expected Learning Outcomes	
<b>In this course, students will</b>	<ul style="list-style-type: none"> <li>● Examine major basins and seas of our oceans</li> <li>● Explore the physical forces factors and outcomes that shape the oceans</li> <li>● Investigate marine ecosystems</li> <li>● Examine marine life webs</li> <li>● Study marine reptiles and mammals</li> <li>● Investigate the human impact on the marine environment</li> </ul>
<b>Standards Alignment</b>	See Course Learning Plan Contract (LPC)
<b>Assessment Methods</b>	Formative Assessments: Lessons and Quizzes Summative Assessments: Labs, Reflections and Tests See detailed list in LPC by module/month

<b>Grading Methods</b>	All summative assessments will be graded according to the corresponding rubric or teacher directions. Only summative assessment scores will calculate towards a student's final grade. Each summative assessment is linked to a FWPS Priority Standard (PS).
<b>Grading Scale</b>	A = 90%-100% B = 89%-80% C = 79%-70% P = 60%-70% F = 59%-0%

<b>Student Expectations</b>	
<b>Weekly Work Completion</b>	Students will submit original work in all classes each week.
<b>Original Work Submissions</b>	Students will only submit their original work. If a student uses outside sources in the creation of their original work, citations must be present in the format requested by their teacher.
<b>Weekly Communication</b>	Students will communicate weekly with their teachers regarding their academic progress.
<b>Functioning Technology/ Required Materials</b>	Students will always have constant and consistent access the functioning hardware, software, technology, and required materials necessary to complete their coursework in all classes.

<b>iA Policies Required for Enrollment</b>	
<b>Academic Integrity</b>	<p>Academic integrity is essential to learning. Students are expected to complete their own work. Copying, plagiarizing, cheating, or other methods of intentional deception are prohibited and could result in the student's removal from the class or iA entirely.</p> <p>IA Policy-</p> <p><u>1st Offense:</u> The student will be contacted by the teacher via phone call, the student will be made aware of the plagiarism and examples of how this can be avoided will be discussed. Direct instruction on plagiarism will be delivered by the teacher. iA Administration and other teachers will be made aware of the plagiarism. The work must be redone without plagiarism.</p> <p><u>2nd Offense:</u> The student and parents will be contacted by the teacher directly and the student will have to complete the plagiarized assignment without plagiarism before moving on in the course. iA Administration will be made aware.</p> <p><u>3rd Offense:</u> The student will be withdrawn from the course or iA depending on the severity and/or frequency of the plagiarism..</p>
<b>WAC (Weekly Academic Contact)</b>	<i>Washington State law requires students make Weekly Academic Contact (WAC). WAC is any type of contact or communication students have with teachers that is academic in nature. Students have a variety of ways to meet this requirement. They include: replying to iA Connect teacher's contact request (email/quiz); submitting an assignment; emailing teachers about</i>

	<p><i>class in iA Campus or Synergy; attending a virtual session or teacher's online office hours; sending your teacher a school related text message (if available); meeting a teacher or administrator on campus, in person. Students must contact iA connect teachers each week with an attendance check-in. Additionally, class teachers expect weekly assessment submissions.</i></p> <p><i>Withdrawal for lack of Weekly Academic Contact (WAC) for 20 consecutive school days:</i></p> <p><i>After 10-15 days without WAC, iA Connect teacher checks with class teachers to see whether WAC has been made in at least one class. If WAC has been made, 'clock' resets. If no WAC has been made, iA Connect teacher will send student and family a warning email and will call home. If no WAC by 20 days, iA Connect teacher checks to see one last time with class teachers. If there's been nothing, Admin will withdraw student; student may not re-enroll until the following school year.</i></p>
<p><b>MAP (Monthly Academic Progress)</b></p>	<p>State law also requires enrolled students to maintain monthly forward progress toward completing classes with success. Students are expected to complete one monthly module of at-standard work or have completed the teacher-prescribed plan as assigned by the certificated teacher of that course. If the assigned at-standard work is submitted, the student will be considered on pace (OP). If the assigned work is not submitted and/or is not at standard, the student will be considered behind pace (BP).</p> <p>An overall Monthly Academic Progress (MAP) score will be emailed to every student and family once a month by the iA Connect teacher to communicate overall progress towards mastery and passing of the courses; law requires BP students to reply with confirmation of the MAP report and iA teachers to document that reply. If students don't immediately reply, teachers are obligated to keep trying for a reply through additional emails or phone calls. Replies must be from the student; parent replies are not sufficient.</p> <p>Students are either On Pace (OP) or Behind Pace (BP). If a student is considered OP (by the individual teachers in individual courses) in 50% or more of their courses, they will be considered OP overall. If a student is considered behind pace (by the individual teachers in individual courses) in more than 50% of their courses they will be considered BP overall. If a student is determined to be BP for consecutive months, the iA Connect teacher will send escalating intervention plans each month by email.</p> <p>BP1 means one month behind pace; intervention typically is new work pace plan.  BP2 means two months behind pace; intervention is typically a new work pace plan and directed teacher contact.  BP3 means three months behind pace; course reduction or withdrawal from iA.  BP4 means complete withdrawal from iA. Students withdrawn from iA at BP4 may not re-enroll until the following school year.</p>
<p><b>Email/Software Agreements</b></p>	<p>Students agree to maintain constant and consistent access to the technology and software needed to complete their iA courses. If students cannot maintain constant and consistent access to needed technology they will be withdrawn from iA.</p>
<p><b>Professional Discretion</b></p>	<p>Teachers reserve the right to make adjustments to the course, content, pacing, and expectations at any time. Students and parents will be notified via email of any changes made after the course has started.</p>

## Course Outline with Suggested Time Requirement

- Refer to the Individual Learning Plan “LPC” for another view.

<b>Weekly</b>	<i>Live Sessions available upon request</i>	
	CCSS.ELA-Literacy.CCRA.SL.1: Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others’ ideas and expressing their own clearly and persuasively.	
<b>Module 1</b>	<i>The Nature of Oceans</i>	3 weeks* (Calendar Weeks 1-3)
<b>Standards</b>	The oceans are divided into 5 major basins and 8 major seas. Oceanographers use specialized tools to study seawater and the sea floor. Forces of density and chemistry control the vertical movement of seawater.	
<b>Module 2</b>	<i>Physical Oceanography</i>	3 weeks (Calendar Weeks 4-6)
<b>Standards</b>	Geologic processes of construction and destruction of the sea floor control the physical oceanography of the oceans. The edges of the oceans are either active or passive margins. Waves, currents and tides work together to shape the coastlines of the ocean.	
<b>Module 3</b>	<i>Marine Ecosystems</i>	3 weeks (Calendar Weeks 7-9)
<b>Standards</b>	Sea life exists in several different ecosystems in the ocean environment. Shorelines are divided into rocky, sandy, and estuarine ecosystems, each with their own physical and biological characteristics. In the open ocean, the pelagic zone are divided into photic, aphotic and benthic regions. Arctic, Antarctic, and coral reef ecosystems are each unique systems of marine life.	
<b>Module 4</b>	<i>Life in the Marine Environment</i>	3 weeks (Calendar Weeks 10-12)
<b>Standards</b>	Life in the marine environment varies from microscopic plankton to large fish and sharks. Each of the different phyla of invertebrates and vertebrates occupy coastal and open ocean environments. Some species of fish are anadromous and of ecological and economic importance. Many species of marine life are commercially harvested.	
<b>Module 5</b>	<i>Marine Reptiles and Mammals</i>	3 weeks (Calendar Weeks 13-15)
<b>Standards</b>	Many species of marine reptiles and mammals play important roles as predators in the marine environment. Pinnipeds and sea otters are common coastal mammals with specialized anatomy and behaviors to allow them survival in their environment. Whales are subdivided into toothed and baleen varieties that are widely distributed throughout the marine environment. Polar bears are considered marine mammals and are endangered due to loss of Arctic habitat.	
<b>Module 6</b>	<i>Human Impacts on the Marine Environment</i>	2 weeks (Calendar Weeks 16-17)
<b>Standards</b>	Humans have a significant impact on the marine environment. Pollution and commercial harvesting of sea life have both had a negative impact on the diversity of life in the ocean.	