

Unit Assessment Report - Four Column

College of Micronesia - FSM

A - instruction - Marine Science (AS)

Mission Statement: The mission of the Marine Science AS degree program is to generate students who demonstrate a fundamental knowledge of the world ocean, who identify the important influence the world ocean has on planet Earth and daily human life, who can evaluate human actions and how these can impact marine and global ecosystems, who can apply the scientific process, and who are prepared to apply learned concepts to serve as effective stewards in Micronesia and/or transfer to a 4-year degree program.

Program Student Learning Outcomes	Assessment Strategies & Target / Tasks	Results	Improvement & Follow-Up
<p>A - instruction - Marine Science (AS) - MS1 - MS1. Demonstrate fundamental knowledge of geological, geomorphological, physical, chemical, and biological oceanography.</p> <p>PSLO Assessment Cycle: 2012 - 2013 2013 - 2014 2014 - 2015</p> <p>Start Date: 08/06/2014</p> <p>Inactive Date: 12/20/2014</p> <p>PSLO Status: Active</p>	<p>Assessment Strategy: Students are asked to describe the processes of photosynthesis and cellular respiration in the marine biology course.</p> <p>Assessment Type: Exam/Quiz - In Course</p> <p>Target: establish baseline</p> <p>Related Documents: mbtest2bis-F12.doc mbtest4-F12.doc</p>	<p>12/17/2013 - Students who completed this course during the F13 session exceeded the targeted score of 70% on both SLOs (Photosynthesis and Cellular Respiration)</p> <p>Target Met: Yes</p> <p>Reporting Period: 2013 - 2014</p> <p>Related Documents: MBio-SLO4-Assessment-F13.pdf</p>	
	<p>Assessment Strategy: Students will be able to draw the profile of the ocean basins with its distinct continental margin and deep-ocean basin and label its respective seafloor components, notably: continental shelf, continental slope, continental rise, submarine canyons, abyssal plains, guyots, sea mounts, mid-ocean ridges, transform faults, hydrothermal vents, and trenches</p> <p>Assessment Type: Exam/Quiz - In Course</p> <p>Target: Class mean of 70% for PSLO#1 assessment strategy</p> <p>Related Documents: Test4-Oceano-Sp13.doc Oceano(MR240)-AssRepSp2014.doc</p>	<p>10/18/2014 - Fall2013 session -- Test 1--81% (10 pass; 3 fail); Test 2--65% (12 pass; 2 fail); Final exam--88% (8 pass; 0 fail) -- students exceeded the target (refer to related document)</p> <p>Target Met: Yes</p> <p>Reporting Period: 2013 - 2014</p> <p>Related Documents: MR240-AssessSLO3_5-F13.pdf</p>	
		<p>05/20/2014 - Spring2014 session -- Test 1--65% (8 pass; 4 fail); Test 2--85% (9 pass; 1 fail); Final exam--86% (9 pass; 1 fail) -- students exceeded the target (refer to related document)</p> <p>Target Met: Yes</p> <p>Reporting Period: 2013 - 2014</p> <p>Related Documents:</p>	

Program Student Learning Outcomes	Assessment Strategies & Target / Tasks	Results	Improvement & Follow-Up
<p>A - instruction - Marine Science (AS) - MS2 - MS2. Apply fundamental knowledge of marine sciences towards identifying and critically analyzing and outlining potential solutions for local, regional and global problems relating to marine systems.</p> <p>PSLO Assessment Cycle: 2013 - 2014</p> <p>Start Date: 08/20/2013</p> <p>Inactive Date: 05/15/2014</p> <p>PSLO Status: Active</p>	<p>Assessment Strategy: Students in MR 201 Aquaculture will design a sustainable aquaculture business plan feasible for regional application.</p> <p>Assessment Type: Project-Group</p> <p>Target: establish baseline</p>	<p>MR240-SummaryGrades-SLO3_5-Sp14.pdf</p> <p>11/03/2014 - Outcome 6.2 "The student will be able to apply successful business and management considerations in the development of a proposal for a regionally feasible and sustainable aquaculture project" requires students to focus on aspects of the course that demonstrated low-tech, sustainable aquaculture as discussed through our partnership with MERIP. This outcome was measured using the Final Lab Project (Group Project) that tasks students with the following: "You and your lab partners will team up to make plans to develop an eco-friendly aquaculture project that could become economically successful within a 3 year period." This project was submitted and presented by the group in PowerPoint format and was graded on rubric that assess all aspects of the project (see attached rubric). All groups (and therefore all students) satisfactorily completed this outcome at a "C" level or higher.</p> <p>Target Met: Yes</p> <p>Reporting Period: 2013 - 2014</p> <p>Related Documents: aquacultureproj_rube.xlsx</p>	
<p>A - instruction - Marine Science (AS) - MS3 - MS3. Apply the scientific process to formulate hypotheses, design experiments, and collect and analyze data from which valid scientific conclusions are drawn.</p> <p>PSLO Assessment Cycle: 2013 - 2014</p> <p>Start Date: 08/20/2013</p>	<p>Assessment Strategy: Students will collect and analyze data via conducting a coral reef survey. Specifically, they will conduct a line-intercept survey, collecting and analyzing the data they have generated, and report their findings in PowerPoint format.</p> <p>Assessment Type: Project-Individual</p>	<p>11/07/2014 - Four of the five students enrolled in this course successfully completed this outcome. The one student that did not complete this outcome did not submit a final report for this project while the other four that did submit projects all satisfactorily met the outcome as scored by a rubric designed to assess the students understanding and interpretation of the data they collected.</p>	

Program Student Learning Outcomes	Assessment Strategies & Target / Tasks	Results	Improvement & Follow-Up
<p>Inactive Date: 05/15/2014</p> <p>PSLO Status: Active</p>	<p>Target: establish baseline</p> <p>Assessment Strategy: Students will collect, analyze, discuss, and interpret oceanographic data in the form of a comprehensive report in MR 240 Oceanography course.</p> <p>Assessment Type: Written Assignment</p> <p>Target: At least 70% of the students will master the PSLO#3 assessment strategy</p>	<p>Target Met: Yes</p> <p>Reporting Period: 2013 - 2014</p> <hr/> <p>05/07/2014 - Sp2014 session -- CSLO8 in the syllabus --- CSLO8 was measured from an extensive laboratory report; overall, the mean average = 71.9% . Of the total of 10 students stayed in the course, 8 passed the laboratory report while 2 students failed the report.</p> <p>Target Met: Yes</p> <p>Reporting Period: 2013 - 2014</p> <p>Related Documents: Oceano-LabFinRep-Sp14.pdf OcLab-WrittenRep-CorrectionTempl.pdf</p> <hr/> <p>03/13/2014 - F2013 session -- CSLO8 in the syllabus -- CSLO8 was measured from an extensive laboratory report; overall, the mean average = 78.9% 7 Pass; 3 Fail (of the 3 who failed -- 2 of them did had left the course after the withdrawal date and did not submit the report; in fact only 1 student failed to pass this research report)</p> <p>Target Met: Yes</p> <p>Reporting Period: 2013 - 2014</p> <p>Related Documents: Oceano-LabRep-Final-F13.pdf OcLab-WrittenRep-CorrectionTempl.pdf</p>	
<p>A - instruction - Marine Science (AS) - MS4 - MS4. Communicate effectively, in written and oral forms, utilizing the language and concepts of marine science.</p>	<p>Assessment Strategy: Students will demonstrate knowledge in marine science (orally) as they summarize their research findings during final group</p>	<p>11/07/2014 - Eleven of the twelve students in this class successfully completed this outcome of orally summarizing research findings.</p> <p>Target Met:</p>	

Program Student Learning Outcomes	Assessment Strategies & Target / Tasks	Results	Improvement & Follow-Up
PSLO Assessment Cycle: 2012 - 2013 2013 - 2014 Start Date: 08/20/2013	research projects in Ichthyology class. Assessment Type: Project-Group Target: establish baseline	Yes Reporting Period: 2013 - 2014	
PSLO Status: Active	Assessment Strategy: The water mixing pattern of an estuary will be studied during the Oceanography (MR240) course. Students will produce an exhaustive laboratory report on their findings Assessment Type: Written Assignment Target: Students who pass this course should obtain 70% or more on their final written laboratory report	05/23/2014 - Sp2014 session -- CSLO8 in the syllabus --- CSLO8 was measured from an extensive laboratory report; overall, the mean average = 71.9% . Of the total of 10 students stayed in the course, 8 passed the laboratory report while 2 students failed the report. Target Met: Yes Reporting Period: 2013 - 2014 Related Documents: Oceano-LabFinRep-Sp14.pdf OcLab-WrittenRep-CorrectionTempl.pdf 03/04/2014 - F2013 session -- CSLO8 in the syllabus -- CSLO8 was measured from an extensive laboratory report; overall, the mean average = 78.9% 7 Pass; 3 Fail (of the 3 who failed -- 2 of them did had left the course after the withdrawal date and did not submit the report; in fact only 1 student failed to pass this research report) Target Met: Yes Reporting Period: 2013 - 2014 Related Documents: Oceano-LabRep-Final-F13.pdf OcLab-WrittenRep-CorrectionTempl.pdf	