Worksheet: Academic #2

Academic Programs Assessment Plan

Marine Science	August 2011 – August 2012
Academic Program	Assessment Period Covered
() Formative Assessment	Spring 2012
(X) Summative Assessment	Date Submitted

Institutional Mission/Strategic Goal:

Mission: Historically diverse, uniquely Micronesian and globally connected, the College of Micronesia-FSM is a continuously improving and student centered institute of higher education. The college is committed to assisting in the development of the Federated States of Micronesia by providing academic, career and technical educational opportunities for student learning.

Strategic Goal (which strategic goal(s) most support the services being provided):

The Marine Science Program promotes Strategic Goals 1, 2, and 7.

Academic Program 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.

Academic Program Outcomes:

Students will be able to:

- 1. Demonstrate fundamental knowledge of geological, geomorphological, physical, chemical, and biological oceanography.
- 2. 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.
- 3. Apply the scientific process to formulate hypotheses, design experiments, and collect and analyze data from which valid scientific conclusions are drawn.
- 4. Communicate effectively, in written and oral forms, utilizing the language and concepts of marine science.

Evaluation questions	Data sources	Sampling	Analysis
Are students able to state the	Examination	MR 240	Evaluation of
factors that influence the		MR 120	examination questions
primary productivity in the		MR 201	to determine the level of
oceans, illustrate how it affects		MR 210	student knowledge
the biomass of living forms in			gained.
the ocean realm, and describe			
the relationship of these			
processes to fisheries and			
global food production in			
general.			
Do students communicate	Submitted	MR 240	Rubrics used to score
biological/scientific	Projects/lab reports	MR 254	these projects and/or lab

	Worksheet: Academic #2				
Evaluation questions	Data sources	Sampling	Analysis		
information effectively in			reports		
written, oral, or visual					
presentation formats?					
Are our program graduates	Data may come	Survey	Expanding on the		
finding employment and/or	potentially from	graduating	baseline data collected		
transferring to 4-year degree	Universities,	students.	last year. Reporting of		
programs?	employers, but most	Contact	any observed trends		
	effectively from our	universities.	relating to our		
	own tracking (small,	Contact	graduates, maintaining		
	close-knit island	regional	communication lines		
	community; easy to	employers.	with our graduates		
	follow our		(personally tracking		
	graduates)		their progress)		
Are students able to able to	Laboratory and field	MR 230	Lab practical quizzes		
demonstrate knowledge of the	activities	Ichthyology	and tests used to identify		
diversity of marine life?			specimens to their		
		MR 120	correct taxonomic		
		Marine Biol.	classifications will be		
			analyzed by marine		
			instructors.		
Are students able to apply	Project	MR 201:	Students will design a		
fundamental knowledge of		Aquaculture	sustainable aquaculture		
marine sciences towards		1	business feasible for		
identifying and critically			regional application.		
analyzing and outlining			Projects will be scored		
potential solutions for local,			by rubric.		
regional and global problems					
relating to marine systems.					
3					
	<u> </u>	l	1		

Timeline

Activity	Who is	Date
	Responsible?	
Develop and administer standard pre and post exams to explore	Marine Science	Spring or
comprehension and learning of fundamental concepts in	Instructors	Summer
geological, geomorphological, physical, and chemical		2012
oceanography, including a rubric for any short answer questions.		
Develop and administer a standard pre and post exam to explore	Marine Science	Spring or
comprehension of fundamental concepts in marine biology	Instructors	Summer
including a rubric for any short answer questions		2012
Continue to collect and collate data on our previous program	Marine Science	Spring or
graduates.	Instructors	Summer
Survey students we expect to graduate.		2012
Initiate further transfer opportunities for our students abroad.		
Develop rubrics, collect reports and projects, score reports and	Marine Science	Spring or
projects, and report on results.	Instructors	Summer
		2012

Worksheet: Academic #2
Comments: