

University of Guam
College of Natural and Applied Sciences (CNAS)
CNAS Assessment Committee

I. BIOLOGY SUMMARY OF ASSESSMENT ACTIVITIES

Activity	Description of Activity	Date of Implementation	Date for Completion	Update
1. Spring 2007 WASC Poster Presentation of Assessment Plan(s)	Program Learning Objective Assessment Plan	AY 2007-2008	Fall 2008	Submitted poster to CNAS Assessment Committee January 2007 for WASC Poster Session; Contact Chair of CNAS Assessment Committee for details (htaijeron@yahoo.com).
2. Degree Program Review Report	Program Review Closing the Loop Report; Date Covered by Review: 2000 – 2007	Fall 2008	Fall 2008	Program Faculty submitted Program Review Closing the Loop Report to CNAS Dean on September 2008 and Dean forwarded report with Dean's input to university EET-AQ Committee; Contact Chair of CNAS Assessment Committee for details (htaijeron@yahoo.com).
3. Biology Degree Program SLOs	Finalize Degree Program SLOs	AY 2003-2004	Initially published in AY 2004-2005 UOG Catalog	See 2008-2009 UOG Catalog; Go back to the SLOs/CMs icon in this website for details.
4. Insertion of SLOs in Course Outlines and Syllabi, Curricular Mappings	Insertion of defined SLOs in Course Outlines	Spring 2008	September, 2008	Approved by CNAS-AAC and CNAS Dean; Go back to the Course Outlines icon in this website for details.
	Insertion of defined SLOs in Course Syllabi (proposed course syllabus template only)	Fall 2008	December, 2008	Go back to the Course Syllabi icon in this website for details.
	Curricular Mappings	Spring 2008	Fall 2008	Go back to the SLOs/CMs icon in this website for details.
5. CNAS Assessment Biology Subcommittee on Biology Assessment Activities	Biology Faculty Presentation of Biology Updated Assessment Plans/Reports/Activities to CNAS Faculty, Fall 2007.	Fall 2007	Fall 2007	Updated Assessment Plans/Reports/Activities for biology presented to CNAS Faculty November 2007.
	Biology Assessment Exemplar Report to University EET-AQ Committee	Fall 2008	Fall 2008	Report submitted by Dr. Maria Schefter to CNAS Assessment Committee September 2008 and forwarded to university EET-AQ Committee; See Section II below for details.
	Biology Assessment Update and Report for AY 2007–2008	Fall 2007	Summer 2008	Tentative Report submitted by Dr. Maria Schefter to CNAS Assessment Committee June 2008;
	AY 2007-2008 SUMMARY OF BIOLOGY ASSESSMENT ACTIVITIES	Fall 2008	Fall 2008	Tentative Report submitted by Dr. Maria Schefter to CNAS Assessment Committee September 2008;

I. IDENTIFICATION OF BIOLOGY ASSESSMENT EXEMPLARS

ASSESSMENT ACTIVITY	SUMMARY OF OUTCOMES AND CHANGES
1. MA 394 (Biostatistics) - Because of student difficulties in the required BI 412 Biometrics, Math faculty conducted pre-test of students at start of course to assess preparedness.	Results showed that a statistics course tailored to biology would better prepare students for BI4—than the present requirement of MA394 – Statistics. Results were used to support a successful grant application; course development of the course is underway by Prof. Tower Chen; course will be piloted in Spring 2009.
2. Bi 124 125 (Anatomy & Physiology)- Evaluation of multiple-section lecture and lab classes in BI 124 and BI 124L - structure, content, and student evaluation / grading	Uniformity in structure, content, and evaluation, was needed across all sections. Staffing was inadequate to the demand for the class. Changes—an adjunct instructor and 2 graduate students were hired to run the 6 lab sections. A single instructor teaches the lectures and coordinates all the lab sections. Enrollment issues (class overrides, etc.) were solved by a single instructor, to ensure that all labs and lectures are approximately equal in size to ensure student-to-instructor ratios. A common syllabus, timetable, and SLOs were prepared, and given to the students. Weekly lab meetings among all instructors ensure consistency among sections. A single instructor writes all the quizzes, tests, and examples, with multiple versions within and between sections. Common lab exams (5) are administered in a single day, to all students in the lab. Staffing continues to be inadequate to the demand for the class, as well as the projected future enrollments.
3. Bi 124 125 – (A&P) Pre- and post-test assessments were conducted for 91 students in BI 124 in Fall 2007; Pre- and post-test assessments were conducted for 86 students in BI 125 in Spring 2008	Data input and analysis is not complete. Projected outcomes and changes—It may be necessary to change the amount of time spent on particular sections that the students find especially difficult.
4. Bi 124 125 – (A & P) Pre-test assessments were conducted for 147 students in BI 124 in Fall 2008	Assessment of student post-tests in December 2008. Projected outcomes and changes—students may need more instructional time, therefore begin to move some evaluation to web-based systems. Students may have difficulty making the transition from memorization to critically thinking about the subject matter. It may be necessary to build in a critical thinking module.
5. BI310 (Evolution) - Students do a critical review of a research articles with the application of knowledge from the course and with the application of a scoring rubric.	Assessment data used to focus instruction and exams on problem-solving and hypothesis testing.
6. BI 120 Scientific Prose, 320 Biodiversity Photomicroscopy, 321 Scientific Arguments – (also called SciComm 1, 2, and 3) Various measures and anecdotal reports from science faculty revealed student need for increased skills in reading and writing science.	Three required one-credit science communication courses were developed under an ED MSEIP federal grant; based on assessment and new learning by faculty, structured critical thinking and responsible conduct of scientific research are being integrated under a UOG NIH <i>RISE</i> grant.

II. DETAILED SUMMARY OF AY 2007-2008 ASSESSMENT STUDY REPORTS SUBMITTED BY BIOLOGY FACULTY (In progress)