

Assessment Impact by Course Objectives
Palau Community College
Program (ES) - Environmental Marine Science

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CLO: SC 109 - Principles of Biology I: CLO 1

Knowledge on the fundamental concepts of Biology. Students demonstrate competency in the basic concepts of biology by providing concise explanations and engaging in lively discussions about the way Biology affects organisms and our lives in the following manner:

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Inactive Date: 12/22/2014

CLO Status: Inactive

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Describe all eight characteristics of living things; four groups of biological molecules; seven major structures and functions of the plasma membrane; identify a function for each of the different structures found in cells and state whether each would be found in prokaryotic plant, or animal cells; and describe five major reactions of photosynthesis. Signature assignment: Midterm Exam	70% of the students assessed will perform at the proficiency level.		Yes
Apply the scientific method by stating a question; researching the topic; determining appropriate tests; performing tests; collecting, analyzing, and biologic lab skills and display a habit of good lab practices which extends to relevant situations in the student's homes: retrieve, evaluate, and use contemporary biologic information. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Describe how genetic information is transcribed and translated into protein structures during protein synthesis and the genetic coding of genetic information; describe the evidence for DNA being the genetic material, how the molecular structure of DNA was worked out, and how DNA is copied, packaged and organized into chromosomes. Signature assignment: Lab Journal	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
No Results reported.			

CLO: SC 109 - Principles of Biology I: CLO 1 (F14)

Describes all eight characteristics of living things.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Start Date: 12/22/2014

CLO Status: Active

Means of Assessment

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Describe all eight characteristics of living things. Signature assignment: Lab Journal	70% of the students assessed will perform at the proficiency level.		Yes
Describe all eight characteristics of living things. Signature assignment: Midterm Exam	70% of the students assessed will perform at the proficiency level.		Yes
Describe all eight characteristics of living things. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/18/2015 - 67.11% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: 07181401.PDF	12/18/2015 - Revisit CLO-1 to possibly revise questions on the signature assignments.		2015-2016 (Fall 2015)
Midterm Exam - 12/18/2015 - 67.11% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: 07181401.PDF	12/18/2015 - Revisit CLO-1 to possibly revise questions on the signature assignments.		2015-2016 (Fall 2015)
Lab Journal - 12/18/2015 - 67.11% of the students assessed performed at the proficiency level. Expected Student Performance Met: No Related Documents: 07181402.PDF	12/18/2015 - Revisit CLO-1 to possibly revise questions on the signature assignments.		2015-2016 (Fall 2015)

CLO: SC 109 - Principles of Biology I: CLO 2

Describe all four groups of biological molecules.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Start Date: 12/22/2014

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Describe all four groups of biological molecules. Signature assignment: Lab Journal	70% of the students assessed will perform at the proficiency level.		Yes
Describe all four groups of biological molecules. Signature assignment: Midterm Exam	70% of the students assessed will perform at the proficiency level.		Yes
Describe all four groups of biological molecules. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/18/2015 - 70.3% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181401.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)
Midterm Exam - 12/18/2015 - 70.3% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181400.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)
Lab Journal - 12/18/2015 - 70.3% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181403.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)

CLO: SC 109 - Principles of Biology I: CLO 3

Describe the seven major structures and functions of the plasma membrane.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Start Date: 12/22/2014

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Describe the seven major structures and functions of the plasma membrane. Signature assignment: Lab Journal	70% of the students assessed will perform at the proficiency level.		Yes
Describe the seven major structures and functions of the plasma membrane. Signature assignment: Midterm Exam	70% of the students assessed will perform at the proficiency level.		Yes
Describe the seven major structures and functions of the plasma membrane. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/18/2015 - 72.5% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181401.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)
Midterm Exam - 12/18/2015 - 72.5% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181400.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)
Lab Journal - 12/18/2015 - 72.5% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181402.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)

CLO: SC 109 - Principles of Biology I: CLO 4

Identify a function of each of the different structures found in cells and state whether each would be found in prokaryotic, plant, or animal cells.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Start Date: 12/22/2014

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Identify a function of each of the different structures found in cells and state whether each would be found in prokaryotic, plant, or animal cell. Signature assignment: Lab Journal	70% of the students assessed will perform at the proficiency level.		Yes
Identify a function of each of the different structures found in cells and state whether each would be found in prokaryotic, plant, or animal cell. Signature assignment: Midterm Exam	70% of the students assessed will perform at the proficiency level.		Yes
Identify a function of each of the different structures found in cells and state whether each would be found in prokaryotic, plant, or animal cell. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/18/2015 - 77.6% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181401.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)
Midterm Exam - 12/18/2015 - 77.6% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181400.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)
Lab Journal - 12/18/2015 - 77.6% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181402.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)

CLO: SC 109 - Principles of Biology I: CLO 5

Describe five major reactions of photosynthesis.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Start Date: 12/22/2014

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Describe five major reactions of photosynthesis. Signature assignment: Lab Journal	70% of the students assessed will perform at the proficiency level.		Yes
Describe five major reactions of photosynthesis. Signature assignment: Midterm Exam	70% of the students assessed will perform at the proficiency level.		Yes
Describe five major reactions of photosynthesis. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/18/2015 - 98.3% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181401.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)
Midterm Exam - 12/18/2015 - 98.3% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181400.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)
Lab Journal - 12/18/2015 - 98.3% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181405.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)

CLO: SC 109 - Principles of Biology I: CLO 6

Describe the evidence for DNA being the genetic material, how the molecular structure of DNA was worked out, and how DNA is copied, packaged and organized into chromosomes.

CLO Assessment Cycle: 2014-2015 (Fall 2014)

Start Date: 12/22/2014

CLO Status: Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active

Means of Assessment			
Means of Assessment	Expected Student Performance	Notes	Active
Describe the evidence for DNA being the genetic material, how the molecular structure of DNA was worked out, and how DNA is copied, packaged and organized into chromosomes. Signature assignment: Lab Journal	70% of the students assessed will perform at the proficiency level.		Yes
Describe the evidence for DNA being the genetic material, how the molecular structure of DNA was worked out, and how DNA is copied, packaged and organized into chromosomes. Signature assignment: Midterm Exam	70% of the students assessed will perform at the proficiency level.		Yes
Describe the evidence for DNA being the genetic material, how the molecular structure of DNA was worked out, and how DNA is copied, packaged and organized into chromosomes. Signature assignment: Final Exam	70% of the students assessed will perform at the proficiency level.		Yes

Results			
Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Final Exam - 12/18/2015 - 88.7% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181401.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)
Midterm Exam - 12/18/2015 - 88.7% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181400.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)
Lab Journal - 12/18/2015 - 88.7% of the students assessed performed at the proficiency level. Expected Student Performance Met: Yes Related Documents: 07181404.PDF	12/18/2015 - No action needed at this time as the expected outcome has been met.		2015-2016 (Fall 2015)