Assessment Impact by Course Objectives

Palau Community College

Department (SC) - Science Department

Department (SC) - Science Department

CLO: SC 209 - Microbiology: CLO 1

Describe beneficial and harmful microorganisms.

CLO Assessment Cycle: 2014-2015 (Spring 2015)
Start Date: 01/13/2014
CLO Status: Active

Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Demonstrate understanding of describing beneficial and harmful microorganisms. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Demonstrate understanding of describing beneficial and harmful microorganisms. **Signature assignment:** Research Project/Paper	70% of the students assessed will perform at the proficiency level.		Yes
Demonstrate understanding of describing beneficial and harmful microorganisms. Apply the scientific method by stating a question; 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:** 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
Lab Journal - 05/26/2015 - 90% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241302.PDF	05/26/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Research Project/Paper - 05/26/2015 - 100% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241301.PDF	05/26/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Final Exam - 05/26/2015 - 72% of the students assessed achieved the rating of 3 (competent level) or better.	05/26/2015 - No action needed at this time as the		2014 - 2015 (Spring

Results			
Summary of Data Collected	**Use of Results**	**Follow-Up**	**Semester Assessed**
Expected Student Performance Met: Yes **Related Documents:** 12241300.PDF	expected outcome has been met.		
Lab Journal - 05/26/2014 - 100% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209clo1,5.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)
Research Project/Paper - 05/23/2014 - 100% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209R.PDF	05/23/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)
Final Exam - 05/23/2014 - 79% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209FE-1.PDF	05/23/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)

CLO: SC 209 - Microbiology: CLO 2

Compare eukaryotic and prokaryotic microorganisms.

CLO Assessment Cycle: 2014-2015 (Spring 2015)
Start Date: 01/13/2014
CLO Status: Active

Means of Assessment			
Means of Assessment	**Expected Student Performance**	**Notes**	**Active**
Demonstrate understanding of comparing eukaryotic and prokaryotic microorganisms. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Demonstrate understanding of comparing eukaryotic and prokaryotic microorganisms. **Signature assignment:** Research Project/Paper	70% of the students assessed will perform at the proficiency level.		Yes

Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Demonstrate understanding of comparing eukaryotic and prokaryotic microorganisms. Apply the scientific method by stating a question; 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:** 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
Lab Journal - 05/26/2015 - 90% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241303.PDF	05/26/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Research Project/Paper - 05/26/2015 - 100% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241301.PDF	05/26/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Final Exam - 05/26/2015 - 50% of students assessed performed at the proficiency level. **Expected Student Performance Met:** No **Related Documents:** 12241300.PDF	05/26/2015 - Review CLO and assessment and revise as needed.		2014 - 2015 (Spring 2015)
Lab Journal - 05/26/2014 - 91% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209clo2,6.PDF SC209clo2.PDF SC209clo2prot.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)
Research Project/Paper - 05/26/2014 - 100% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209R.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)
Final Exam - 05/26/2014 - 71% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)

Results			
Summary of Data Collected	**Use of Results**	**Follow-Up**	**Semester Assessed**

Related Documents:
SC209FE-1.PDF

CLO: SC 209 - Microbiology: CLO 3

Describe phenotypic properties of major microbial groups.

CLO Assessment Cycle: 2014-2015 (Spring 2015)
Start Date: 01/13/2014
CLO Status: Active

Means of Assessment			
Means of Assessment	**Expected Student Performance**	**Notes**	**Active**
Demonstrate understanding of describing phenotypic properties of major microbial groups. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Demonstrate understanding of describing phenotypic properties of major microbial groups. **Signature assignment:** Research Project/Paper	70% of the students assessed will perform at the proficiency level.		Yes
Demonstrate understanding of describing phenotypic properties of major microbial groups. Apply the scientific method by stating a question; 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:** 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**
Lab Journal - 05/26/2015 - 85% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241305.PDF	05/26/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Research Project/Paper - 05/26/2015 - 100% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241301.PDF	05/26/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Final Exam - 05/26/2015 - 80% of the students assessed performed at the proficiency level.	05/26/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring

Results			
Summary of Data Collected	**Use of Results**	**Follow-Up**	**Semester Assessed**
Expected Student Performance Met: Yes **Related Documents:** 12241300.PDF			
Lab Journal - 05/26/2014 - 100% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209clo3,4,6.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)
Research Project/Paper - 05/26/2014 - 100% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209R.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)
Final Exam - 05/26/2014 - 93% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209FE-1.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)

CLO: SC 209 - Microbiology: CLO 4

Describe methods used for control of microbial growth.

CLO Assessment Cycle: 2014-2015 (Spring 2015)
Start Date: 01/13/2014
CLO Status: Active

Means of Assessment			
Means of Assessment	**Expected Student Performance**	**Notes**	**Active**
Demonstrate understanding of methods used for control of microbial growth. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Demonstrate understanding of methods used for control of microbial growth. **Signature assignment:** Research Project/Paper	70% of the students assessed will perform at the proficiency level.		Yes

Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Demonstrate understanding of methods used for control of microbial growth. Apply the scientific method by stating a question; 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:** 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
Final Exam - 05/26/2015 - 83% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241300.PDF	05/26/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Lab Journal - 05/26/2015 - 84% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241305.PDF	05/26/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Research Project/Paper - 05/26/2015 - 100% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241301.PDF	05/26/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Lab Journal - 05/26/2014 - 100% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209clo3,4,6.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)
Research Project/Paper - 05/26/2014 - 100% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209R.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)
Final Exam - 05/26/2014 - 65% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** No **Related Documents:** SC209FE-1.PDF	05/26/2014 - Review CLO and assessment questions and revise as needed		2013 - 2014 (Spring 2014)

Results			
Summary of Data Collected	**Use of Results**	**Follow-Up**	**Semester Assessed**
SC209FE-2.PDF			

CLO: SC 209 - Microbiology: CLO 5

Describe how a pathogen spreads.

CLO Assessment Cycle: 2014-2015 (Spring 2015)
Start Date: 01/13/2014
CLO Status: Active

Means of Assessment			
Means of Assessment	**Expected Student Performance**	**Notes**	**Active**
Demonstrate understanding of how a pathogen spreads. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Demonstrate understanding of how a pathogen spreads. **Signature assignment:** Research Project/Paper	70% of the students assessed will perform at the proficiency level.		Yes
Demonstrate understanding of how a pathogen spreads. Apply the scientific method by stating a question; 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:** 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**
Lab Journal - 05/27/2015 - 90% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241302.PDF	05/27/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Research Project/Paper - 05/27/2015 - 100% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241301.PDF	05/27/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Final Exam - 05/27/2015 - 66% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes	05/27/2015 - Review CLO and assessment and revise as needed.		2014 - 2015 (Spring 2015)

Results			
Summary of Data Collected	**Use of Results**	**Follow-Up**	**Semester Assessed**
Related Documents: 12241300.PDF			
Lab Journal - 05/26/2014 - 100% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209clo1,5.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)
Research Project/Paper - 05/26/2014 - 100% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209R.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)
Final Exam - 05/26/2014 - 76% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209FE-1.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)

CLO: SC 209 - Microbiology: CLO 6

Prepare culture media, apply aseptic technique, and gram stain procedure.

CLO Assessment Cycle: 2014-2015 (Spring 2015)
Start Date: 01/13/2014
CLO Status: Active

Means of Assessment			
Means of Assessment	**Expected Student Performance**	**Notes**	**Active**
Demonstrate understanding of preparation of culture media, application of aseptic technique, and gram staining procedure. **Signature assignment:** Final Exam	70% of the students assessed will perform at the proficiency level.		Yes
Demonstrate understanding of preparation of culture media, application of aseptic technique, and gram staining procedure. **Signature assignment:** Research Project/Paper	70% of the students assessed will perform at the proficiency level.		Yes

Means of Assessment

Means of Assessment	Expected Student Performance	Notes	Active
Demonstrate understanding of preparation of culture media, application of aseptic technique, and gram staining procedure. Apply the scientific method by stating a question; 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:** Lab Journal	70% of the students assessed will reach the proficiency level.		Yes

Results

Summary of Data Collected	Use of Results	Follow-Up	Semester Assessed
Lab Journal - 05/27/2015 - 91% of the students assessed performed at the proficiency level. **Expected Student Performance Met:** Yes **Related Documents:** 12241303.PDF 12241305.PDF 12241306.PDF	05/27/2015 - No action needed at this time as the expected outcome has been met.		2014 - 2015 (Spring 2015)
Lab Journal - 05/26/2014 - 100% of the students assessed achieved the rating of 3 (competent level) or better. **Expected Student Performance Met:** Yes **Related Documents:** SC209clo2,6.PDF SC209clo3,4,6.PDF	05/26/2014 - No action needed at this time as the expected outcome has been met.		2013 - 2014 (Spring 2014)