

Program Assessment Report due 11/21/14

Program or Certificate: A.S. Pre-Professional Academic Year Assessed: 2013-2014 Program Lead Faculty: Peter G. Hernandez Department Chair: George E. Hagen

Program Learning Outcome #1	Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.
Courses in the degree	BIOL 1406. BIOL 1407. CHEM 1411. CHEM 1412
plan that address this	
outcome	
Assessment Method	
	A representative sample such as a key assignment will be taken from BIOL 1407 and CHEM 1412 which provide
	students an opportunity to demonstrate knowledge or skills of this Program Learning Outcome. The student artifacts
	will be drawn from 10% of the total enrollment for the courses being measured.
Targets for	Of the sample of students analyzed, 70% or higher will master the program learning outcome.
Achievement	
Results	74.4% of the students sampled mastered this learning outcome.
Target Met or Not Met	The target for this learning outcome was met.
New action plan for	The previous year' action plan will be implemented again for this year's assessment with the modification of increasing
improvement of	the sampling size to 20% of the total enrollment. Additionally, Canvas will be used as a platform to present critical
student learning	thinking exercises to enhance the performance of students on this learning outcome.
Evaluation of previous	The action plan was implemented on a representative sampling of students using a key assignment. It was
cycle's action plans	successful in that 74.4% of the student's mastered the learning outcome which had a goal of 70% success.
Program Learning	Communicate effectively the results of investigations.
Outcome #2	



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Courses in the degree plan that address this outcome	BIOL 1406, BIOL 1407, CHEM 1411, CHEM 1412
Assessment Method	
	A representative sample such as a key assignment will be taken from BIOL 1407 and CHEM 1412 which provide students an opportunity to demonstrate knowledge or skills of this Program Learning Outcome. The student artifacts will be drawn from 10% of the total enrollment for the courses being measured.
Targets for Achievement	Of the sample of students analyzed, 70% or higher will master the program learning outcome.
Results	77.5% of the students sampled mastered this learning outcome.
Target Met or Not Met	The target for this learning outcome was met.
New action plan for improvement of student learning	The previous year' action plan will be implemented again for this year's assessment with the modification of increasing the sampling size to 20% of the total enrollment. Additionally, Canvas will be used as a platform to present samples of effective communication of laboratory investigations to enhance the performance of students on this learning outcome.
Evaluation of previous cycle's action plans	The action plan was implemented on a representative sampling of students using a key assignment. It was successful in that 77.5% of the student's mastered the learning outcome which had a goal of 70% success.
Program Learning Outcome #3	Convert units of measure and demonstrate dimensional analysis skills.
Courses in the degree plan that address this outcome	BIOL 1406, BIOL 1407, CHEM 1411, CHEM 1412



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Assessment Method	A representative sample such as a key assignment will be taken from BIOL 1407 and CHEM 1412 which provide
	students an opportunity to demonstrate knowledge or skills of this Program Learning Outcome. The student
	artifacts will be drawn from 10% of the total enrollment for the courses being measured.
Targets for	Of the cample of students analyzed 70% or higher will master the program learning outcome
Achievement	Of the sample of students analyzed, 70% of higher will master the program learning outcome.
Achievement	
Results	86.7% of the students sampled mastered this learning outcome.
Target Met or Not Met	The target for this learning outcome was met.
New action plan for	The previous year' action plan will be implemented again for this year's assessment with the modification of
improvement of	increasing the sampling size to 20% of the total enrollment. Additionally, Canvas will be used as a platform to
student learning	present examples of measurement conversion and dimensional analysis to enhance the performance of
	students on this learning outcome.
Evaluation of previous	The action plan was implemented on a representative sampling of students using a key assignment. It was
cycle's action plans	successful in that 86.7% of the student's mastered the learning outcome which had a goal of 70% success.
Program Learning	Demonstrates the ability to work in a group of 2 or more to collaboratively solve problems.
Outcome #4	
Courses in the degree	BIOL 1406, BIOL 1407, CHEM 1411, CHEM 1412
plan that address this	
outcome	



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Assessment Method	A representative sample such as a key assignment will be taken from BIOL 1407 and CHEM 1412 which provide
	students an opportunity to demonstrate knowledge or skills of this Program Learning Outcome. The student
	artifacts will be drawn from 10% of the total enrollment for the courses being measured.
Targets for	Of the sample of students analyzed, 70% or higher will master the program learning outcome.
Achievement	
Results	100% of the students sampled mastered this learning outcome.
Target Met or Not Met	The target for this learning outcome was met.
New action plan for	The previous year' action plan will be implemented again for this year's assessment with the modification of
improvement of	increasing the sampling size to 20% of the total enrollment
student learning	
Evaluation of provious	The action plan was implemented on a representative sampling of students using a key assignment. It was
evelo's action plans	successful in that 100% of the student's mastered the learning outcome which had a goal of 70% success
cycle's action plans	succession in that 100% of the student's mastered the learning outcome which had a goal of 70% success.