

## INSTRUCTIONAL Program Review Annual Update

Department:	Biology		
Academic Year:	2017-2018	Annual Update # 1	<input type="checkbox"/> Annual Update #2 <input checked="" type="checkbox"/>

### 1. Progress on Program Level Outcomes (PLOs) and Student Learning Outcomes (SLOs) (from #3B of full PR)

#### A) List your Program Level Outcomes:

1. Students will be prepared to enter further allied health sciences training or advance science classes after completing biology courses.
2. Students will demonstrate understanding of the processes of science, the scientific method, and the relationship between scientific research and established knowledge.
3. Students will conduct experiments and communicate results using appropriate formats.

#### B) Summarize the progress you have made on Program Level Outcomes (PLOs):

1. We measure PLO 1 by assessing the percentage of students who completed BIOL 4, 5 and 8 with a C or higher. These three classes allow students to progress to further allied health sciences training or advance science classes at four-year institutions. In 2016-17, 90% of BIOL 4 students and BIOL 5 students successfully completed these classes. 100% of the students completing BIOL 8 were successful.
2. To measure PLO 2, we use the percentage of students successful with the assessment for SLO 1 in BIOL 2, 4, 5, and 8. SLO 1 in all biology courses addresses the ability of the successful student to demonstrate an understanding of the processes of science and the communication of scientific findings to a wider audience. In 2016-17, 88.5% of students across the four classes successfully met the standard.
3. To measure PLO 3, we use the percentage of students successful with the assessment for SLO 2 in BIOL 2, 4, 5, and 8. SLO 2 in these biology courses addresses the ability of the successful student to conduct experiments and appropriately communicate results. In 2016-2017, 83% of students in these classes successfully met the standard.

#### C) Summarize the progress you have made on course level outcomes and assessments (SLOs):

Student learning outcomes continue to be assessed for each section, each semester. The full-time faculty use the same assessment type for each SLO; this standardization would be useful for the part-time faculty to adopt. We are consistently meeting and exceeding the target of 70% success for each SLO in each class.

#### D) Describe any program, course, and/or instructional changes made by your program as a result of the outcomes assessment process.

The outcomes assessment process indicated a need for better data communication between the part-time and full-time faculty. With the expansion of BIOL 4 and BIOL 5 into the block of evening classes, we now have part-time faculty teaching these core classes. Our assessment data reflects the results of full-time faculty as gathering the data from part-time faculty remains challenging.

#### E) Reflecting on the responses for B) and C) above, what will you implement for the next assessment cycle?

For the next assessment cycle, we hope to have a Biology Department folder on the P drive into which all SLO data can be placed so it is easily accessible to all department members.

### 2. GOALS AND OBJECTIVES (Taken From #9--Action Plan--of FULL Program Review)

## INSTRUCTIONAL Program Review Annual Update

GOAL		OBJECTIVE		ACTIONS/TASKS REQUIRED TO ACHIEVE OBJECTIVE	OUTCOMES, MEASURES, and ASSESSMENT
<b>#1</b>	Development and implementation of certificate	<b>#1</b>	Find out the status of certificate	Talk to Dean Shreve	The result of this conversation will inform what steps we need to take next.
		<b>#2</b>	Provide any necessary data	Read and analyze proposed certificate	Submit any comments or revisions to administrators, resulting in an acceptable certificate
		<b>#3</b>	Enroll students in certificate track	Promote the advantages to students	We will be better able to capture how many students successfully complete our biology courses even if they do not complete an associate's degree from Barstow CC.

**Goal #1 Annual Update:** (Assess progress made toward goal attainment)

This goal is no longer a priority for the department as there were financial aid considerations for our students that precluded the development of a certificate. We will have to devise another way to capture how many students successfully complete our biology courses regardless of degree completion.

GOAL		OBJECTIVE		ACTIONS/TASKS REQUIRED TO ACHIEVE OBJECTIVE	OUTCOMES, MEASURES, and ASSESSMENT
<b>#2</b>	Increase content specific professional development conference attendance	<b>#1</b>	Provide administrators with conference information and data to support requests.	Complete Budget Allocation Proposal	PR and BAP will be reviewed by administration, resulting in feedback that will be implemented into forms.
		<b>#2</b>	Submit a revised Budget Allocation Proposal to administration.	Read and analyze Program Review and Budget Allocation Proposal suggestions.	Upon resubmission, an acceptable and approvable BAP will be generated.
		<b>#3</b>	Respond to requests for further clarification of discipline needs.	Revise and research data to support participation in content-specific professional development conferences.	BAP will be approved!

**Goal #2 Annual Update:** (Assess progress made toward goal attainment)

We are submitting a BAP for attending the National Association of Biology Teachers 2018 Professional Development Conference to be held in San Diego next November.

GOAL		OBJECTIVE		ACTIONS/TASKS REQUIRED TO ACHIEVE OBJECTIVE	OUTCOMES, MEASURES, and ASSESSMENT
<b>#3</b>	Increasing course offerings	<b>#1</b>	Identify biological areas to increase course offerings in	Discuss among faculty and identify career paths students may choose based on increased offerings	These conversations will lead to pinpointing the specific courses we wish to develop

## INSTRUCTIONAL Program Review Annual Update

GOAL	OBJECTIVE	ACTIONS/TASKS REQUIRED TO ACHIEVE OBJECTIVE	OUTCOMES, MEASURES, and ASSESSMENT
	#2 Plan 1 course a year each year in the assessment cycle	Understand the Curricunet procedures required of new courses; talk to Kyri Freeman	We will be able to submit a viable course outline for approval
	#3 Gain approval of the course	Talk to Dean Shreve and submit submissions to Curriculum Committee and the Chancellor's Office	We will be able to offer new and exciting courses to students.

### Goal #3 Annual Update: (Assess progress made toward goal attainment)

We have continued to problem-solve ways to increase our limited physical laboratory space. Dean Shreve was investigating ways in which a classroom in the S building could be converted to laboratory space to increase course offerings. Dr. Ranney and Ms. Susan Nylander continue to collaborate to offer unique learning community opportunities. Next fall we will offering an English/Biology community examining the importance of wilderness to the American experience. The Biology course will focus on ecology and the human impact while incorporating field trip experiences to locations such as Channel Islands National Park.

### 3. Resources Required

List all significant resources needed to achieve the objectives shown in your action plan, including personnel, training, technology, information, equipment, supplies, and space. Every request for additional resources must support at least one objective.

Also list any resources required to implement planned improvements noted in 3.C.3.

**IMPORTANT:** A **BUDGET ALLOCATION PROPOSAL** must be completed and submitted for **EACH** new resource requested.

Goal #	Objective #	Resource Required	Estimated Cost	BAP Required? Yes or No	If No, indicate funding source
2	1	Conference and Travel Funds for 2 faculty to attend the National Association of Biology Teachers professional development conference in San Diego in November 2018.	\$2500	Yes	