	2024 Academic Program Assessment Report		Program current assessment plan here: Program prior assessment report here:			//_doc/2019/report/biology-bs-assessmen //_doc/2023/biology-bs-assessment-repor		
Report Completed By:	Amaya Garcia Costas							
Date Report Completed:	May 31, 2024							
Faculty members involved in this Assessment:	Biology department: all fa support instructors	culty and full time						
Please describe this year's asses	ment activities and follow-u	ıp for your program be	ow. (Separate sheet for	each undergraduate]			
Brief Statement of Program Mission and Goals:	The mission of the Biology I and graduate education for a c experiential learning opportun research opportunities.	diverse student population t	hrough a comprehensive curr					
I. Assessment of Student Lear processes, results, and recom Use Column H to describe imp the assessment process.	mendations for improved	student learning.						
A. Your program SLOs are	B. When was this SLO	C. What method	D. Who was	E. What is the				
						-	H. What changes/improvements	
pasted here verbatim from vour assessment plan. Please	last reported on prior to this cycle?		assessed? Please fully describe the	expected proficiency	the assessment? (Include	conclusions about student	to the program are planned based	
pasted here verbatim from your assessment plan. Please enter info in columns B-H onl	to this cycle?	was used for assessing the SLO? Please include a	fully describe the			conclusions about student	.	
vour assessment plan. Please enter info in columns B-H onl for those assessed during this	to this cycle? (semester and year)	assessing the SLO? Please include a copy of any rubrics	fully describe the student group(s) and the number of	expected proficiency level and how many or what proportion of students should be at	the assessment? (Include the proportion of students	conclusions about student	to the program are planned based	
your assessment plan. Please enter info in columns B-H onl	to this cycle? (semester and year)	assessing the SLO? Please include a copy of any rubrics used in the	fully describe the student group(s) and the number of students or artifacts	expected proficiency level and how many or what proportion of students should be at	the assessment? (Include the proportion of students	conclusions about student	to the program are planned based	
vour assessment plan. Please enter info in columns B-H onl for those assessed during this	to this cycle? (semester and year)	assessing the SLO? Please include a copy of any rubrics	fully describe the student group(s) and the number of	expected proficiency level and how many or what proportion of students should be at	the assessment? (Include the proportion of students	conclusions about student	to the program are planned based	

	AY21-22, presented in 2022 report	1. Senior students enrolled in our capstone course (BIOL493)	seniors show proficiency	Biology majors was 70% of students were proficient; in 6/14 stations (43% of stations), 80% or higher of students showed proficiency; in 11/14 stations (73%), 50% or higher of students showed proficiency or all questions and analyses was 67% of students. 8/18 questions (44.5%) had 80% or higher of students showing proficiency; in 15/18 questions (83%), 50% or higher of students showed proficiency	electrophoresis apparatus, microscope (with identification), microcentrifuge; studnets scored lowest in skills hat required numerical applications (eg. using scale bars, mesuring surface area, etc.). In many of these instances studnets failed the oven include units. At least one of the stations (measuring absorbance) needs to be better set up as it was confusing to students, hance the skill was not assessed correctly. 2. As above, students performed lowest in questions that required numercal calculations	Faculty discussed how difficult it is to give all studens the chance to do some of the calculations assessed here (eg. make dilutions of solutions, as those are done by stockroom staff to speed the labs along). It was suggested that, even though students dont get to carry out the actual dilutions, they could still learn how to make them andhave questions about that in lab quizzes (even if they didnt make them themsekes). The Chair uses a Math packet at the beginning of one of her lab courses and she will suggest in the fall that Math packts are generated for other lab courses. We will revisit in the Fall to come up with srategies where we don't juut ask students to interpret graphs, but also to predict and extrapolate data from them
 Students will develop skills in reading and interpreting the scientific literature and in presenting a synthesis of it accurately in oral 	Not assessed in this cycle				data analysis, such as interpeting cladograms, phylogenetic trees, graphs with experimental data, and gel elctrophoresis results.	
A.Students will demonstrate critical thinking and written form. 4.Students will demonstrate critical thinking and problem solving skills using experimental design and the scientific method.	Not assessed in this cycle					

Comments on part I:

We started designing our tools for SLO2 in the Fall; the entire department participated and voted on the different skills and questions to be asked. At last 4 faculty were involved in helping with stations. the Department Chair collected data, analyzed it, and presented it to department

II. Closing the Loop. Describe at least one data-informed change to your

A. What SLO(s) or other issues did you address in this cycle? Please include SLOs verbatim from the assessment plan, as above.	B. When was this SLO last assessed to generate the data which informed the change? Please indicate the semester and year.	C. What were the recommendations for change from the previous assessment column H and/or feedback?	D. How were the recommendations for change acted upon?	E. What were the results of the changes? If the changes were not effective, what are the next steps or the new recommendations?		
 Students will develop a broad-based knowledge and application of concepts, techniques and terminology in molecular, cellular, organismal, evolutionary and ecological biology. 	It is assessed annualy, hence the last time was: AY22-23, presented in 2023 report	Assessments are in place and being completed, but discussion with faculty, implementing changes and/or acting on assessment does not seem substantive based on this reporting cycle.	We spent the fall discussing adjustments to our core curriculum, including but not limited to, comaand presented those to CAPB; these changes have now been approved.	Not applicable; it will take a few additional assessment cycles for the changes to have an impact		
Assessment plan link biology-bs-assessment-plan-2024.docx						