

Program Review Comprehensive Report



Program Review - Instructional: Biology

Supplemental Reports and Attachments

2014 - 2017

Comments or Notes: NCB ENTERED

Attachments:

[2014-17 BIOLOGY_SLO_DISCIPLINE.pdf](#)

[2014-17 MIRCOBIOLOGY_SLO_DISCIPLINE.pdf](#)

[2014-17 HES_SLO_DISCIPLINE.pdf](#)

Program Trends and Updates

2014 - 2017

Program Update Section

Has your unit shifted departments in the PAST 4 years?: Yes, the old college department included math, science (physical and life) and kinesiology. After going through the shared governance process Math is now its own department and Science and Kinesiology is a separate department.

Do you anticipate your unit will shift departments in the NEXT 4 years?: No

New certificates programs created by your unit in the PAST 4 years?: Biology A.S.-T.

New certificate programs anticipated by your unit in the NEXT 4 years?: California Naturalist state certification, Environmental Science A.S.-T.

Substantial modifications made to certificates/degrees in the PAST 4 years.: None

Substantial modifications anticipated to certificates/degrees in the NEXT 4 years.: Change of numbering in Biology ADT for BIO-11 to BIO-60 and BIO-12 to BIO-61

Activities in other units that impacted your unit in the PAST 4 years.: STEM grant has provided SI assistance and equipment

Activities in other units that impacted your unit in the NEXT 4 years.: ADT in Biology increases the need for Chemistry and Physics classes. Increases in lab courses require additional support from laboratory technicians, which require a new hire of another full-time laboratory technician.

Previous Program Review Resource Requests

Resource Requests Received: Our unit has been able to purchase the following vital equipment to enhance student learning: shades, new tables and a watering system for the greenhouse, plant presses and storage cases, a cell counter, and mammalian tissue culture supplies and equipment, safety hood for Bio prep area, some biology and microbiology replacement slides, new anatomy models for majors BIO-12, storage shed for plant press cases, and cork boards for ST 201 suite.

How did the resources received impact student learning?: Resources impact student learning by providing more relevant biotechnology for improved laboratory experiences.

If you requested resources but did not receive them, how did that impact student learning?: CONCERN: The district and the college have not responsibly or transparently decided which entity is responsible for vendor payments. Several vendors in biology and anatomy have had substantial delays in receiving payment. Furthermore, extensive delays occur between authorization and approval and actual funds dispersal. This was clearly evident when one of our colleges attempted to purchase the supplies at Home Depot and the card was rejected due to lack of funds. All of these payment issues to science vendors needs to be resolved.

BIOLOGY 5, BIOLOGY 8, BIOLOGY 12: Did not receive three tiered seed sprouter which reduces ability to conduct plant growth experiments.

BIOLOGY 11 AND MICROBIOLOGY: Did not receive ELISA plate reader upgraded software package, new computer to run

Program Review - Instructional: Biology

Program Goal: Lab manual for Microbiology

Develop a tailored local lab manual for Microbiology. Develop labs and write an appropriately leveled lab manual.

Goal Status: In Progress

Goal Year(s): 2014 - 2017, 2018 - 2021

Start Date: 04/01/2017

How do your goals support the Educational Master Plan?: Provide an innovative approach to learning as stated in the mission. This Program Goal Supports the selected EMP Goal(s) and Objective(s): Goal 1 Objective 1: Improve transfer preparedness (completes 60 transferable units with a 2.0 GPA or higher).

Program Goal: California Naturalist certificate

Develop a California Naturalist state certificate.

Goal Status: In Progress

Goal Year(s): 2018 - 2021

Start Date: 02/03/2018

How do your goals support the Educational Master Plan?: A California Naturalist state certificate will increase student engagement by providing an excellent component to their curriculum vitae and allow them to act as citizen scientists in a more engaged manner.

This Program Goal Supports the selected EMP Goal(s) and Objective(s): Goal 3 Objective 1:

Program Goal: Environmental Science A.S.-T.

Develop an Environmental Science A.S.-T.

Goal Status: In Progress

Goal Year(s): 2018 - 2021

Start Date: 02/12/2018

How do your goals support the Educational Master Plan?: Improve transfer preparedness

This Program Goal Supports the selected EMP Goal(s) and Objective(s): Goal 1 Objective 1: Improve transfer preparedness (completes 60 transferable units with a 2.0 GPA or higher).