



2018-19 Annual Program Update

Program Overview

Please verify the mission statement for your program. If there is no mission statement listed, please add it here.

The mission of the Biology Department includes providing:
Introductory courses that meet requirements of AA and AS degrees
Career Technical Education, specifically Biomanufacturing (including two certificates and an AS degree)
Transfer courses to four year schools
Prerequisites for professional schools (including programs for Registered Nurse, Licensed Vocational Nurse, Nurse Practitioner, Radiology Technician, Physician Assistant, Dental, Dental Hygiene, Medical and Pharmacy).

List your Faculty and/or Staff

Full-time:
Amy Bohorquez
Laurie Allen-Requa
Douglas Bruce
Rajeev Banerjee
Leslie Blackie
Rebecca Bailey

Part-time:
Kevin Davis
Paul Nagami
Margaret Kenrick
Riva Bruenn
Ruhina Najem
Nathaniel Hallinan
Gregory Ponomareff

The Program Goals below are from your most recent Program Review or APU. If none are listed, please add your most recent program goals. Then, indicate the status of this goal, and which College and District goal your program goal aligns to. If your goal has been completed, please answer the follow up question regarding how you measured the achievement of this goal.

Full-time faculty participate at a high level at the college. We will continue to do this, and work with our new f/t faculty to find appropriate ways for them to increase participation.

- Status - In-Progress
- College Goal - Cultivate a culture of belonging, pride and self-reflection for continuous improvement
- District Goal - Strengthen Accountability, Innovation and Collaboration
- This is an ongoing goal

The department has been a campus leader in assessment. We will continue to assess SLOs in all our courses, and will look more specifically at DE vs. face-to-face and multiple-section courses. And the department has done very well with keeping curriculum up to date and relevant over the years. We will continue to maintain currency of our Course Outlines of Record and include more specific assessment methods in our CORs. See end of document for list of biology data in Meta.

- Status - In-Progress
- College Goal - Cultivate a culture of belonging, pride and self-reflection for continuous improvement
- District Goal - Advance Student Access, Equity, and Success
- This is an ongoing goal

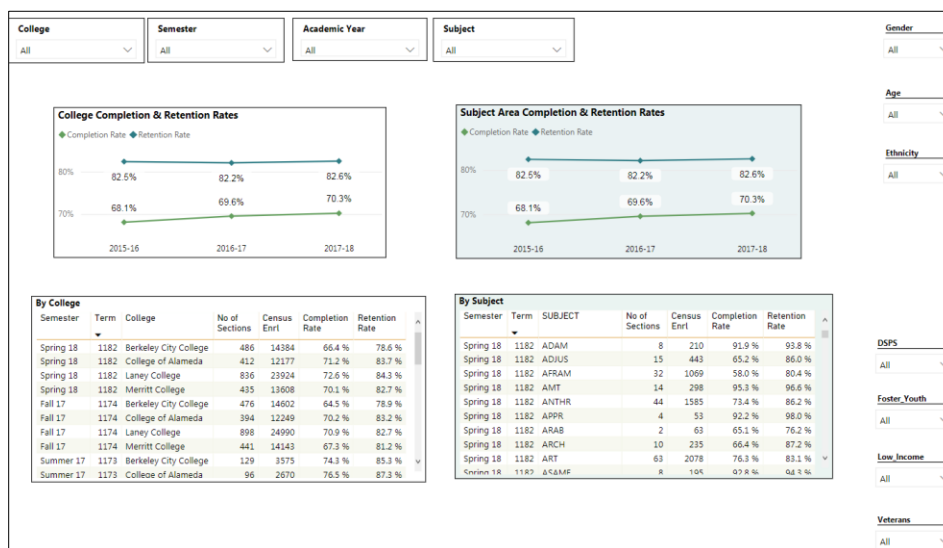
Each semester, many of our courses draw more students than we can serve. We want to open more sections of our courses. To make this possible, our goal is to have a new Science building or STEM center to accommodate our needs and better serve our students and increase their success.

- Status - In-Progress
- College Goal - Cultivate a culture of belonging, pride and self-reflection for continuous improvement
- District Goal - Advance Student Access, Equity, and Success

Describe your current utilization of facilities, including labs and other space

We currently have 5 lab rooms in two different buildings. We have a lab prep area, cold rooms and glassware room. The biomanufacturing program uses a room behind the forum (Forum 103B-104) for storage of supplies and equipment.

Program Update



Program Update Power BI dashboard

Using the dashboard, review and reflect upon the data for your program. Describe any significant changes and discuss what the changes mean to your program. Consider whether performance gaps exist for disproportionality impacted students. Focus upon the most recent year and/or the years since your last comprehensive program review. Cite data points from the dashboard to support your answer.

Having capped some of our lab sizes to safer limits may have decreased our enrollment numbers slightly, however we think this has helped our retention and success rates. This is likely because students are able to have more one on one experiences with faculty. Considering we house almost all lab courses and a CTE program, we are proud of a productivity of 18-19.

Having been awarded funds from the State Finance Office in the amount of one million dollars for Innovation, we used this money to pay for our embedded tutoring in more courses as well as pay for digital access to textbooks and support software for some of our non-majors courses. This addition has helped our students master more of the information and increase score for students that utilize the resources. We have also put together a Student Services Speaker Series to show students that we care greatly about their success. We will continue our outreach to help retention of students.

Describe the department's progress on Student Learning Outcomes (SLOs) and/or Administrative Unit Outcomes (AUOs) since the last Program Review/APU. If your discipline offers a degree or certificate, please describe the department progress on Program Learning Outcomes (PLOs).

The list of biology assessments in Meta is at the end of this document, covering Fall 17 forward. Prior to the implementation of Meta, we have assessment data as far back as 2007. All certificates and degrees have been recently assessed, including the multidisciplinary Science degree. This link leads to the published program assessments on the Learning Assessment Committee's webpage.

<https://laney.edu/assessment/program-outcomes-and-assessment-results/>

All department faculty participate in assessment, and overall the department shows great enthusiasm for the process of assessment and the usefulness of assessment data in improving our courses and programs. We take pride in having assessed all of our courses and ongoing programs. Faculty are trained in use of Meta and we have ongoing training and review opportunities. We may also be updating the SLOs for some courses this year, notably Biology 2 and 4, and potentially other courses. The objective is to pare most courses SLOs, while ensuring that mapping to PLOs is accurate.

Describe the outcomes and accomplishments from previous year's funded resource allocation request.

Brief description of funded request	Source (any additional award outside your base allocation)	Total Award Amount	Outcome/Accomplishment
Local and regional Round 1 funds (supply chain project, biotech industrial maintenance certificate)	Strong Workforce Program round 1	35,000	The Biomanufacturing program has worked with a regional project to partner with other community colleges and BABEC to develop a supply chain project to provide needed materials with highschools. By supporting highschool biotech programs the supply chain project introduces students to biotechnology/biomanufacturing before they come to a community college as well as increased visibility of the Laney Biomanufacturing program to local highschools which will result in increased enrollments. Local SWF have been used to pay for student assistants which supports the faculty teaching the lab courses in the biomanufacturing program as well as giving the students increased work experience to help develop their job related skills and increase placement in the workforce. Additional regional funds were used to develop curriculum for an industrial maintenance certificate program with an emphasis in working in clean rooms for the pharmaceutical/biomanufacturing industries.

Prioritized Resource Requests Summary

In the boxes below, please add resource requests for your program. If there are no resource requested, leave the boxes blank.

Resource Category	Description/Justification	Estimated Annual Salary Costs	Estimated Annual Benefits Costs	Total Estimated Cost
Personnel: Classified Staff	Evening Lab Technician	37000	13000	50000
Personnel: Student Worker				
Personnel: Part Time Faculty				
Personnel: Full Time Faculty				

Resource Category	Description/Justification	Total Estimated Cost
Professional Development: Department wide PD needed	Work on Equity and Science	free
Professional Development: Personal/Individual PD needed		

Prioritized Resource Requests Summary - Continued

Resource Category	Description/Justification	Total Estimated Cost
Supplies: Software		
Supplies: Books, Magazines, and/or Periodicals		
Supplies: Instructional Supplies		
Supplies: Non-Instructional Supplies		
Supplies: Library Collections		

Resource Category	Description/Justification	Total Estimated Cost
Technology & Equipment: New		
Technology & Equipment: Replacement		

Prioritized Resource Requests Summary - Continued

Resource Category	Description/Justification	Total Estimated Cost
Facilities: Classrooms		
Facilities: Offices		
Facilities: Labs	Upgrade of plumbing and electrical in A237 to accommodate new equipment. A water line needs to be run from behind the autoclave to a new piece of equipment. Additional 220V electrical service is needed to supply a steam generator. Contractors will be brought in to do this work.	5000
Facilities: Other	STEM BUILDING	4000000
Resource Category	Description/Justification	Total Estimated Cost
Library: Library materials		
Library: Library collections		

Resource Category	Description/Justification	Total Estimated Cost
OTHER	Service Contracts – Autoclave and Microscopes	\$16,500

Assessment in Meta	Status
BIOL 1A 21763 SLO2 Spring 2017	Active
Biol 24 41542 SLO1 FALL 2017	Active
BIOL 72B 42422 SLO 1 FALL 2017	Active

Biol20A41538Slo2Fall2017	Active
BIOL 2 BAILEY SLO1 FALL 2017	Active
BIOL 2 BAILEY SLO2 FALL 2017	Active
BIOL 2 BAILEY SLO3 FALL 2017	Active
BIOL 2 BAILEY SLO4 FALL 2017	Active
BIOL 4 BAILEY SLO1 FALL 2017	Active
BIOL 4 BAILEY SLO2 FALL 2017	Active
BIOL 4 BAILEY SLO3 FALL 2017	Active
BIOL 4 BAILEY SLO4 FALL 2017	Active
BIOL 2 SECTION AGG SLO1 FALL 2017	Active
BIOL 2 SECTION AGG SLO2 FALL 2017	Active
BIOL 2 SECTION AGG SLO3 FALL 2017	Active
BIOL 2 SECTION AGG SLO4 FALL 2017	Active
BIOL 4 SECTION AGG SLO1 FALL 2017	Active
BIOL 4 SECTION AGG SLO2 FALL 2017	Active
BIOL 4 SECTION AGG SLO3 FALL 2017	Active
BIOL 4 SECTION AGG SLO4 FALL 2017	Active
BIOL 1B 41516 FALL 2017	Active
BIOL 1A 41515 SLO1 Fall2017	Active
Biol 74 41079 SLO#2 Fall 2017	Active
BIOL 75 BRUCE SLO2 FALL 2016	Active
BIOL 1A 24649 SLO5 Spring2018	Active
BIOL 10 24663 SPR 2018	Active
BIOL 1B 24651 SPR 2018	Active
BIOL 74 41079 SLO # 1 FALL 2016	Active
BIOL 76 40807 SLO # 3 FALL 2016	Active
BIOL 72A 41072 SLO # 1 FALL 2016	Active
BIOL 72D 41078 SLO # 1 FALL 2016	Active
BIOL 77 22869 SLO # 2 SPRING 2017	Active
BIOL 76 21792 SLO # 3,4 SPRING 2017	Active
BIOL 1A 41373 SLO 4 Fall 2018	Active
BIOL 10 41391 SLO4 FALL 2018	Active
BIOL 1B 41375 SLO2 FALL 2018	Active
Biol 24 24669 SLO5 Spring 2018	Draft
Biol 28 24677 SLO 5 Spring 2018	Draft
Biol 20B 24673 SLO 1 Spring 2018	Draft
BIOL 1B 24651 SLO4 SPRING 2018	In Review
BIOL 10 41394 SLO 4 Fall 2018	In Review
Biol 20A 41397 SLO 3 Fall 2018	In Review
Biol 24 41400 SLO 4 Fall 2018	In Review
BIOL 10 41388 SLO 4 FALL 2018	In Review