


 Dept - (BHES) Biology > Department > Program Review



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2019-20 Annual Program Review Update Submitted By: Jason Bram

APRU Complete for: 2019-20



Program Mission Statement: To transfer students majoring in Biology to a 4 year college to complete their 4 year degree in Biology, to provide prerequisite preparation for nursing and allied health students, and to provide general education lab science courses for students majoring in other disciplines at De Anza College.



I.A.1 What is the Primary Focus of Your Program?: Transfer



I.A.2 Choose a Secondary Focus of Your Program?: Career/Technical



I.B.1 Number Certificates of Achievement Awarded:

I.B.2 Number Certif of Achievement-Advanced Awarded:



I.B.3 #ADTs (Associate Degrees for Transfer) Awarded:

I.B.4 # AA and/or AS Degrees Awarded: 17

I.B.5 Trends in # Degrees Awarded: The total number of degrees awarded showed a decrease from last year. The number of degrees awarded has never been very high for Biology, which is most likely due to the limited impact an A.S. degree has in the field of Biology. Most Biology students' educational goal is a bachelors degree or higher.

I.B.6 Strategies to Increase Awards: Since the A.S. degree in Biology does not seem to be the educational goal of most De Anza Biology students, no strategy is needed.

I.C.1. CTE Programs: Review of Perkins Core Indicator and SWP Outcomes Metrics: N/A

I.C.2 CTE Programs: Labor Market Demand and Industry Trends :: N/A

I.D.1 Academic Services & Learning Resources: #Faculty served:

I.D.2 Academic Services & Learning Resources: #Students served:

I.D.3 Academic Services & Learning Resources: #Staff Served:

I.E.1 Full time faculty (FTEF): 18.2

I.E.2 #Student Employees:

I.E.3 Full Time Load as a %: Full-time faculty teaching went from 46.5% to 53.0% . Part-time faculty teaching went from 45.3% to 36.6%.

I.E.4 # Staff Employees: 3, no changes

I.E.4 #Staff Employees:

I.E.5 Changes in Employees/Resources:

II.A Enrollment Trends: Enrollment has remained very consistent over the last 3 years, with only an average of a 1% drop over the last 3 years.



The Biology department continues to see long wait lists and student demand in the prerequisite Bio 40 series and the Biology majors 6 series courses. Adding more sections of these courses could help improve enrollment.

II.B Overall Success Rate: The overall success rate has remained very consistent over the last 3 years, with the 3-year average mirroring last year's success rate. The success rate is now at 78%. Tutoring options have diminished with the loss of the adjunct skills program. Increased tutoring opportunities for Biology students would be helpful in increasing success rates.

II.C Changes Imposed by Internal/External Regulations: None at this time

III.A Program Success:

III.B Enrollment Trends - Equity Lens: When looking at the last 3 years, the Biology department mirrors the college enrollment in regards to campus-wide percentages for African American, Latinx, and Pacific Islander students. The Biology department has a greater percentage of Filipinx students than the college as a whole.

III.C Success, Non-Success and Withdraw Rates: Unfortunately, there are many groups that show a decreased success rate including African American students (13%), Latinx students (8%), Native American students (5%), Pacific Islander (9%), current or former foster youth students (23%), low income students (6%), and veterans (5%). To deal with these differences, it would be nice to see a similar program to the MPS program on-campus for Biology and other departments on-campus as well.

III.D Equity Planning and Support: N/A

III.E Departmental Equity Planning and Progress: We continue to utilize technology in our classrooms, website locations for course information, email access and office hour availability for students to interact and ask questions as needed.

III.F Assistance Needed to close Equity Gap: No

IV. A. SLOAC Summary:

IV.B Assessment Planning:

V.A Budget Trends: Biology budget continues to see a successive decrease in funding. In order to increase enrollment, we do need to have an increase to our B budget funding.

V.B Funding Impact on Enrollment Trends: Nearly all Biology classes involve labs and hands on learning experience for students. It is extremely important that we be able to provide all our students, but especially our targeted students, with sufficient resources to maximize student success. We cannot do this without increased funding.

V.C.1 Faculty Position(s) Needed: Growth

V.C.2 Justification for Faculty Position(s): Our FT to PT faculty ratio remains low and to provide students with the optimum opportunity to succeed they do require FT faculty who can commit to needed department work outside of just teaching. If we do lose a position due to retirement etc., it is very essential that we be able to replace this position. We are experiencing a high demand for Biology 6 and Biology 40 sections per student e-mails.

V.D.1 Staff Position(s) Needed: Growth position

V.D.2 Justification for Staff Position(s): Laboratory technicians (2) to support our growing enrollment and course offerings and for evening/weekend courses.



Staff position for Science Resource Center to allow the center to be open evenings and weekends.

V.E Equipment Requests: Equipment resource requests listed on spreadsheet

V.F Facility Request: See Spreadsheet

V.G Other Needed Resources: Resource requests listed on spreadsheet

V.H.1 Staff Development Needs: None at this time

V.H.2 Staff Development Needs Justification:

V.I Closing the Loop: We will continue to aggressively pursue our goal to decrease the equity gap and increase student success as indicated in the College Mission Statement

Last Updated: 01/26/2020

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