

Biological Science - Division 20 - Science, Technology, Engineering, and Math -
Biological Science

Main

Overview

Academic Year 2024 - 2025

Originator Yuh, Patrick

Division Division 20 - Science, Technology, Engineering, and Math

Department Biological Science

Programs

Co-Contributors

Questions? Find answers in CurricUNET User Manual. (http://www.Gavilan.edu/en/employee-services/office-of-instruction/curricunet/program_reviews/create_pr.html)

Contributor

- Nari, Jennifer

Annual Update

1. **Academic Year** 2024 - 2025

Previous Goals Increase one-year persistence rates by 3%

Proposed Activity to Achieve Goal:

Connect with students early, and throughout, semester

Responsible Party:

Faculty, Dean, Department Chair

Total Three Year Resource Allocation Request:

10000

Timeline to Completion Month / Year:

August 2025

How Will You Evaluate Whether You Achieved Your Goal:

Compare one-year persistence rates in the next two academic years to current rates.

End of Year Goal Status In Progress

Please describe your status (No more than 200 words)

With the help of our STEM grant and Circle of Champions grant, we have been able to support students in many ways to increase one-year persistence rates:

- **STEM Academy:** students in the STEM Academy receive a stipend in exchange for spending at least 3 hours/week in the STEM Center, meeting with their STEM Counselor and Faculty Mentor several times each semester, and attending other check-in meetings.

- **STEM Center:** we have staff to run the STEM Center and student tutors who work with students in their STEM coursework.
- **GavConnect:** this semester we integrated the student login/logout process at the STEM Center with GavConnect. This will facilitate our wraparound services and make it easier for faculty and staff to see how much time a student is spending at the STEM Center.
- **STEM CAP Specialist:** STEM IV supports a full-time CAP Specialist who can devote their time to planning, coordinating, and advertising events for our students (e.g. tours of nearby colleges and universities, conferences, workshops, etc.)
- **Circle of Champions:** this new grant is aimed at identifying a specialized support network for a student - a small group of people invested in the student's success.

Did you request the same resources the previous year? If so, what was the result? Has there been a significant change since your request?)

No, we did not request these resources previously. As indicated above, most of the resources for our efforts comes from grant funding rather than institutional funding (i.e. the general fund). If we were to fully support our efforts through the general fund, we would ask for far more.

Planning

Additional Comments

2. Academic Year 2024 - 2025

Previous Goals Map Biology course SLOs to PLOs and ILOs

Proposed Activity to Achieve Goal:

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How Will You Evaluate Whether You Achieved Your Goal:

Compare one-year persistence rates in the next two academic years to current rates.

End of Year Goal Status In Progress

Please describe your status (No more than 200 words)

This goal is in progress but on hold. It is not a particularly difficult goal to complete; it requires time on the part of Biology faculty, the Department Chair, Dean, and possibly the Curriculum Committee chair.

Did you request the same resources the previous year? If so, what was the result? Has there been a significant change since your request?)

No, this is a new request.

Planning

Additional Comments

Resource Requests

Click Add Item to Enter a Resource Request

1. **Request Name (short title)** Biology Lab Equipment
2. **Request amount** 17900

3. Type of Request Non Personnel

4. Alignment to Goal(s) Increase one-year persistence rates by 3%

5. Is this a one-time or ongoing expense. One-time

6. Category of Request (Select all that apply).

- Instructional Equipment
- Instructional Supplies, Materials and Textbooks

7. The committee will separate goals with resource requests. Requests will be categorized into two groups: those to be ranked and those not ranked. The requests not ranked include Safety, Compliance, Personnel, and Position.

Which of the following best describes your requests?

8. Provide a complete description, justification, or rationale for the requested amount.

Describe how it aligns to the selected goal(s) and your responses to the above questions.

(300 words)

Planaria model (Qty 1): \$1100

Articulated skeleton, half blue/red (Qty 1): \$4500

Steri-Lite Bead Sterilizer-ST5193 (Qty 13): \$12300

The requested funds for biology lab equipment will be used to purchase essential tools such as anatomical models and lab equipment that will significantly enhance the hands-on learning experience for biology students. By providing access to modern, high-quality lab equipment, we will improve student engagement and support academic success, directly contributing to the department's goal of increasing one-year persistence rates by 3%. This equipment will support both foundational and advanced biology courses and labs, impacting students across multiple STEM disciplines.

2. **1. Request Name (short title)** Instructional Supplies - Hollister

2. Request amount 2000

3. Type of Request Non Personnel

4. Alignment to Goal(s) Increase one-year persistence rates by 3%

5. Is this a one-time or ongoing expense. Ongoing

6. Category of Request (Select all that apply).

- Instructional Equipment
- Instructional Supplies, Materials and Textbooks

7. The committee will separate goals with resource requests. Requests will be categorized into two groups: those to be ranked and those not ranked. The requests not ranked include Safety, Compliance, Personnel, and Position.

Which of the following best describes your requests?

8. Provide a complete description, justification, or rationale for the requested amount.

Describe how it aligns to the selected goal(s) and your responses to the above questions.

(300 words)

We are now offering several Biology classes at the Hollister site and will have an ongoing need for instructional supplies.

Executive Summary

Please provide a brief executive summary regarding program trends and highlights that surfaced in the writing of this report. Summarize, using narrative, your program goals for this year. Your audience will be your Peer Review Team, the program review Committee, President's Cabinet, Dean's Council, ASGC, Academic Senate, Budget Committee and Board of Trustees (300 words or less).

Program trends in Biology - as we passed the worst of the Covid pandemic, we began to grapple with the rise of AI chatbots. This presents a double whammy to student learning:

1. Students who have been used to fully online courses and assessments may struggle in an in-person setting as they (re-)acclimate.
2. In parallel, this struggle may tempt students into using AI to complete their coursework.

Faculty also face challenges with more widespread issues of academic dishonesty as students turn in AI-generated work. All of these issues certainly have the potential to impact persistence rates.

A new goal for the Biology program (and others) may be to assess and evaluate the use of AI in their teaching. Faculty need to hear more about best practices in engaging students around the use of AI. Moreover, this responsibility should not fall on any one program. Faculty, staff, administrators, and students all have a role to play in how faculty and students use this powerful tool to advance student learning.

Attach Files

If there is any additional information regarding your program that you will like to have uploaded, please attach it here.

Attached File