![Skyline College logo]

Program Review Update

2024-2025

SKY Dept - Biology

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[signature]

12/10/2024

SKY Instructional Program Review Update

Submitter Name:
Yancy Aquino

Submitter Date:
11/11/2024

DIVISION:
Science, Technology, Engineering, and Mathematics (STEM)

PROGRAM NAME:
Biology

YEAR OF REVIEW:
2024-2025

1. STUDENT LEARNING OUTCOMES

What notable conclusions were drawn from the assessment results? If available, note any differences in assessment results by key disaggregations (e.g. modality, learning communities, etc.). What have been the implications for the program? Specific questions to answer in your response:
i. What percentage of course SLOs have been assessed in the last three years?
Number of Course SLOs:
14

Percentage:
50

ii. Which course(s) were assessed in the last three years?
BIOL 150, BIOL 215, BIOL 230, BIOL 240, BIOL 250, BIOL 260, BIOL 310

iii. Degree-bearing programs are expected to assess Institutional SLOs, ideally during each ISLO's featured year. List which course(s) were assessed for which ISLOs in the last three years.
BIOL 101, BIOL 215, BIOL 230

iv. Drawing from course and institutional SLOs results, what notable conclusions were drawn? Which results led to action(s) that were planned or taken, if any, to enhance student learning in those courses?
Based on the table, all resulted in some proficiency of greater than 70%.

2. CURRICULUM

Please indicate whether the following tasks have been completed:
Submitted a current assessment calendar with all active courses to the Office of Planning, Research, and Institutional Effectiveness
Yes

Updated the Improvement Platform with new and/or changed SLOs, after approval by the Curriculum Committee
Yes

Updated the program website with new and/or changed PSLOs after they are published in the College Catalog
Not Applicable

Reviewed, updated (as needed), and submitted degree and certificate maps to the Curriculum Committee
Yes

3.   ADDITIONAL INFORMATION

Please note anything else that has not been captured above that is relevant to program accomplishments, challenges, and resource needs. Explain and document your response as needed.
N/A

Goals & Resource Requests

Increase students success in the use of current lab equipments, similar to what they will use in the workplace, to fulfill the SLO in Biology

Students need to use updated and current lab equipment that aligns or reflects the current industry standards and workplace environments in order to achieve the course SLOs.

Year Initiated
2021 - 2022

Implementation Step(s) and Timelines
Once equipment is available, 70% of students will be able to conduct and to properly accomplish the lab activities.

Mapping
- SKY Strategic Goals: *(X - Hightlight Selected)*
- **Student Support and Resources:** Ensure that all students have the support and resources needed to achieve their educational goals (**X**)

STATUS

Goal Status Date
11/19/2024

Academic Year Updated
2024 - 2025

Goal Status
Behind Schedule

Goal Status Narrative
Some of the equipment like slides and microscopes were funded enabling the students to use this instructional equipment to further their studies. However, the others were not funded, putting our students at a disadvantage when they go out in the real world because the equipment that they use in the lab are not at par or not the same as the equipment that they will be using in the workplace.

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Microplate Reader

Resource Description
Lab machine that uses light to detect and measure different biological activity in a wells of a translucent plate.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Update Biol 215, 230, BTech, 240 labs. Honors projects. Introduce up to date technology similar to what is being done at peer institutions and transfer institutions.

Cost
8,066.63

Level of need, with 1 being the most pressing

Goals & Resource Requests

1

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Camera traps

Resource Description
View of wildlife around campus

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Students use the traps in order to view with organism are on campus.

Cost
1,760

Level of need, with 1 being the most pressing
2

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Plate Pourer

Resource Description
Lab machine used for automated pouring of cell culture media

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Old one will need to be replaced.

Cost
49,387.5

Level of need, with 1 being the most pressing
1

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Goals & Resource Requests

Resource Type
Instructional Equipment

Resource Name
Flongle Starter Pack- Adaptor + 12 flow cells

Resource Description
Necessary accessories for running the Nanopore sequencer

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Update Biol 215, 230, BTech, 240 labs. Honors projects. Introduce up to date technology similar to what is being done at peer institutions and transfer institutions.

Cost
1,602.35

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Supplies

Resource Name
Lab Cart

Resource Description
These carts are used to transport equipments, such as microscopes, anatomy lab models, etc. from one lab room to another.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Efficiency of cart preparation for multiple labs.

Cost
526.8

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Salt Water Tank

Resource Description

Goals & Resource Requests

Specialized habitat for the growth, maintenance and study of saltwater fauna and flora as a comparison to freshwater environments

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Update Biol 215, 101, 110 labs.

Cost
853.86

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Nanodrop

Resource Description
Lab machine used to provide precise concentrations of biological material from very small volumes of samples.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Update Biol 215, 230, BTech, 240 labs. Honors projects. Introduce up to date technology similar to what is being done at peer institutions and transfer institutions.

Cost
18,046.19

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Binoculars

Resource Description
Portable equipment used for observing wildlife at a distance.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.

Goals & Resource Requests

Update Biol 215, 101, 110 labs.

Cost
3,456.3

Level of need, with 1 being the most pressing
1

<u>FOR ADMINISTRATIVE USE ONLY</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Water Quality Kit

Resource Description
Water sampling kit that can be used in lab or in the fireld for measuring levels of contamination in a body of water.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Water sampling kit that can be used in lab or in the fireld for measuring levels of contamination in a body of water.

Cost
6,829.74

Level of need, with 1 being the most pressing
1

<u>FOR ADMINISTRATIVE USE ONLY</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Plankton Nets (50 or 150 micron)

Resource Description
Fine mesh net used to collect microorganisms from bodies of water.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Replace the ones that went missing during the pandemic.

Cost
251.33

Level of need, with 1 being the most pressing
1

<u>FOR ADMINISTRATIVE USE ONLY</u>

Goals & Resource Requests

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Nanopore Sequencer- MinION MK1B Starter Pack

Resource Description
Lab machine used in the sequencing of DNA and RNA.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Update Biol 215, 230, BTech, 240 labs. Honors projects. Introduce up to date technology similar to what is being done at peer institutions and transfer institutions.

Cost
2,193.9

Level of need, with 1 being the most pressing
1

<u>FOR ADMINISTRATIVE USE ONLY</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Slides

Resource Description
Prepared whitefish embryo slides

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Many are damaged or missing. These are necessary for students to understand embryology.

Cost
247.5

Level of need, with 1 being the most pressing
2

<u>FOR ADMINISTRATIVE USE ONLY</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type

Goals & Resource Requests

Instructional Equipment

Resource Name
Bacteria Cell spreader

Resource Description
Bacterial cell spreader. All Bio 200s are sharing a set of 10 right now. Need 20 more.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Bacterial cell spreader. All Bio 200s are sharing a set of 10 right now. Need 20 more.

Cost
330

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Sensors

Resource Description
Carbon dioxide sensors

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Many of the sensors are 20 something years old and no longer working. Need replacement so that students will be able to use non defective microscopes that are at par with the once use in the work place.

Cost
2,959

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Leaf ID kits

Resource Description
Used for plant identification

Funds Type – Mark all that apply.
One-time Cost

Goals & Resource Requests

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
We need to replace missing and damaged leaf kits. These are critical for learning plant identification and practicing critical thinking.

Cost
272.8

Level of need, with 1 being the most pressing
1

<u>FOR ADMINISTRATIVE USE ONLY</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Microscope

Resource Description
Stereoscopic microscopes

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Critically used in lab to introduce non-majors to microscopy. Builds confidence in scope use and allows students to explore science at a fine scale. Increases the understanding of scientific principles in non-majors students in our college and district.

Cost
7,150

Level of need, with 1 being the most pressing
1

<u>FOR ADMINISTRATIVE USE ONLY</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Centrifuge

Resource Description
High speed, refrigerated centrifuge is broken and is required to isolate cell parts.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
These high speed, refrigerated centrifuge is no longer working. These are necessary and required to isolate cell parts. Need replacement so that students will be able to use non defective equipment that are at par with the once use in the work place.

Goals & Resource Requests

Cost
6,600
Level of need, with 1 being the most pressing
1
<u>**FOR ADMINISTRATIVE USE ONLY**</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)
Year of Request
2022 - 2023
Resource Type
Technology
Resource Name
Mixer
Resource Description
Vortex mixer
Funds Type – Mark all that apply.
One-time Cost
Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
We are currently using two 20-year-old donated mixers that no longer work for classes of 30 students.
Cost
495
Level of need, with 1 being the most pressing
2
<u>**FOR ADMINISTRATIVE USE ONLY**</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)
Year of Request
2022 - 2023
Resource Type
Instructional Equipment
Resource Name
Slides
Resource Description
Prepared whitefish embryo slides
Funds Type – Mark all that apply.
One-time Cost
Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Many are damaged or missing. These are necessary for students to understand embryology.
Cost
247.5
Level of need, with 1 being the most pressing
2
<u>**FOR ADMINISTRATIVE USE ONLY**</u>

Resource Request

Division Name

Goals & Resource Requests

Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Supplies

Resource Name
Gel boxes - electrodes and wires

Resource Description
Electrodes and wirings

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Many of the electrodes and wirings are broken and/or missing. These are necessary for students to complete the required lab works.

Cost
3,300

Level of need, with 1 being the most pressing
2

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Supplies

Resource Name
Centrifuge

Resource Description
Microcentrifuge

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
These are critical for majors but used by students in all BIOL classes. We have one that 30 students must share in each lab. Used in BIOL 101, 110, BIOL 215, BIOL 230, BIOL 240, and BIOL 260. Carrying between labs decreases their lifespan. These are used by students to understand and complete their lab work.

Cost
1,650

Level of need, with 1 being the most pressing
2

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Supplies

Goals & Resource Requests

Resource Name
Pipette

Resource Description
Pipette Repair Kit

Funds Type – Mark all that apply.
One-time Cost, Recurring Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Many of our pipettes are broken and need repair and calibration. Need replacement so that students will be able to use non defective microscopes that are at par with the once use in the work place.

Cost
132

Level of need, with 1 being the most pressing
2

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Scale

Resource Description
2-Kg Scale

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Need replacement so that students will be able to use non defective scale that are at par with the once use in the work place.

Cost
491.7

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Transilluminator

Resource Description
Transilluminator UV and visible light is used to observe results of gels and other items

Funds Type – Mark all that apply.
One-time Cost

Goals & Resource Requests

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.

Our labs only have 2 transilluminators.   In order to reduce backup and to have students read their results we need current transilluminators that will not interfere with how phones take pictures.

Cost

5,500

Level of need, with 1 being the most pressing

1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name

 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request

2022 - 2023

Resource Type

Technology

Resource Name

UV lights

Resource Description

Desk top UV lamps with lumination.

Funds Type – Mark all that apply.

One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.

Students use the UV Lamps to view materials, like Gene induction, to show how the effects of UV light on Biological samples.

Cost

1,155

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name

 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request

2022 - 2023

Resource Type

Instructional Equipment

Resource Name

Stage micrometers

Resource Description

Stage micrometers

Funds Type – Mark all that apply.

One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.

Students use Micrometers to learn how microscopes work. Micrometers are typically worn and broken as students use the materials

Cost

440

Level of need, with 1 being the most pressing

4

Goals & Resource Requests

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Technology

Resource Name
Microscope camera

Resource Description
Microscope camera

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Taking pictures of materials.

Cost
3,960

Level of need, with 1 being the most pressing
2

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
120 g x .001g scale

Resource Description
Scales for massing very accurate amounts of materials.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
These scales are often used in class. This will replace scales that have become damaged with use.

Cost
643.5

Level of need, with 1 being the most pressing
2

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type

Goals & Resource Requests

Instructional Equipment

Resource Name
500 g Scales

Resource Description
Scales for massing medium amounts of materials.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
The Scales are well used in class.   Often students are waiting for scales to be open in order to weight their materials.

Cost
1,501.5

Level of need, with 1 being the most pressing
2

<ins>FOR ADMINISTRATIVE USE ONLY</ins>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Jars

Resource Description
Anaerobic Jars

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Anaerobic Jars allow students to study bacteria that will not grow under aerobic conditions.

Cost
1,650

Level of need, with 1 being the most pressing
1

<ins>FOR ADMINISTRATIVE USE ONLY</ins>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Incubator

Resource Description
Large incubator for class use.

Funds Type – Mark all that apply.
One-time Cost

Goals & Resource Requests

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Replacement of current incubator that is lacking a fin.   For safety and to meet SLO's.

Cost
16,500

Level of need, with 1 being the most pressing
1

<u>**FOR ADMINISTRATIVE USE ONLY**</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Petri Plate Pourer

Resource Description
100mm plate pouring

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Replacement of older piece of equipment.

Cost
33,000

Level of need, with 1 being the most pressing
2

<u>**FOR ADMINISTRATIVE USE ONLY**</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Refrigerator with glass door.

Resource Description
Biochemistry work requires us to see materials in the fridge.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Replacement of old hand down fridge.

Cost
2,750

Level of need, with 1 being the most pressing
2

<u>**FOR ADMINISTRATIVE USE ONLY**</u>

Goals & Resource Requests

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Gel boxes

Resource Description
Electrophoresis gel boxes to practice electrophoresis.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
To replace current gel boxes.   That are old and leak.   Every class does electrophoresis.

Cost
3,300

Level of need, with 1 being the most pressing
2

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Supplies

Resource Name
Maintenance

Resource Description
Equipment preventive maintenance and repair.

Funds Type – Mark all that apply.
Recurring Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Several pieces of essential equipment will need preventative maintenance.

Cost
11,000

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Goals & Resource Requests

Resource Name
Turntables
Resource Description
For inoculating cultures on plates.
Funds Type – Mark all that apply.
One-time Cost
Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Counting cultures on plates for SLO.
Cost
910
Level of need, with 1 being the most pressing
4
FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)
Year of Request
2022 - 2023
Resource Type
Instructional Equipment
Resource Name
Rest tube dispenser.
Resource Description
Omnispence is a pump used to dispence materials in lab
Funds Type – Mark all that apply.
One-time Cost
Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
This piece of equipment is critical to the function in of all labs.   It is the piece of equipment that we use to make all our materials and to dispense materials.
Cost
3,850
Level of need, with 1 being the most pressing
1
FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)
Year of Request
2022 - 2023
Resource Type
Instructional Equipment
Resource Name
Rest tube dispenser
Resource Description
Omnispence is a pump used to dispence materials in lab.
Funds Type – Mark all that apply.
One-time Cost

Goals & Resource Requests

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
This piece of equipment is critical to the function in of all labs.   It is the piece of equipment that we use to make all our materials and to dispense materials.

Cost
3,850

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Orbital shakers

Resource Description
Orbital shakers are used to mix materials for lab.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
This new shaker will supplement and replace the current orbital shakers. We now have only one that is shared between labs.

Cost
1,320

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Camera traps

Resource Description
View of wildlife around campus

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Students use the traps in order to view with organism are on campus.

Cost
1,760

Level of need, with 1 being the most pressing

Goals & Resource Requests

2

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Plankton Nets

Resource Description
Nets for monitoring environment

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Nets for environmental testing.

Cost
402.6

Level of need, with 1 being the most pressing
3

Increase students success in the use of current lab equipments, similar to what they will use in the workplace, to fulfill the SLO in Physiology.

Students need to use updated and current lab equipment that aligns or reflects the current industry standards and workplace environments in order to achieve the course SLOs.

Year Initiated
2018 - 2019

Implementation Step(s) and Timelines
Once equipment is available, 70% of students will be able to conduct and to properly accomplish the lab activities.

Mapping
- SKY College Values: *(X - Selected)*
  - **Student Success and Equity:** undefined (**X**)

- SKY Strategic Goals: *(X - Hightlight Selected)*
  - **Student Support and Resources:** Ensure that all students have the support and resources needed to achieve their educational goals (**X**)

STATUS

Goal Status Date
11/15/2024

Academic Year Updated
2024 - 2025

Goal Status
On Schedule

Goal Status Narrative

Goals & Resource Requests

Some of the requested instructional equipment has been fulfilled, i.e. eye piece pointers, which made it easy for the students to identify specific cellular parts. Also, some of the slides that have been broken are replaced with a new one, which is very important for students continued learning about different cells in the body. However, some have not been acquired, i.e. water bath, Rh Light box, and analytical balances, which are imperative for the students success in the class making sure that the reading that they get during lab experiments are accurate. We still need the other equipments, like the laptop, in order to update the current laptop that students are using.

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Rh Light box

Resource Description
Light box for viewing gels and materials.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Current light boxes have an issue with interference in taking pictures with phones.

Cost
825

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Water baths

Resource Description
Small water baths for use during lab.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Students need these water baths to facilitate their lab experiments and to arrive at a desired results.

Cost
1,100

Level of need, with 1 being the most pressing
2

FOR ADMINISTRATIVE USE ONLY

Goals & Resource Requests

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Slides

Resource Description
Prepared slides of cells, prokaryotes, etc.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Students need to see tissues and cells. Prepared histology & prokaryote slides. Current 40+ year old sets are broken/missing.

Cost
3,300

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Microscopes

Resource Description
Microscopes with 400x lens

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Students need to use updated and current lab equipment that aligns or reflects the current industry standards and workplace environments.

Cost
11,000

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Goals & Resource Requests

Resource Type
Instructional Equipment
Resource Name
Slides
Resource Description
Prepared slides of cells, prokaryotes, etc.
Funds Type – Mark all that apply.
One-time Cost
Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Students need to see tissues and cells. Prepared histology & prokaryote slides. Current 40+ year old sets are broken/missing.
Cost
3,300
Level of need, with 1 being the most pressing
1
FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)
Year of Request
2022 - 2023
Resource Type
Technology
Resource Name
Laptop
Resource Description
Current/updated laptop for students to use.
Funds Type – Mark all that apply.
One-time Cost
Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Students need to use updated and current lab equipment that aligns or reflects the current industry standards and workplace environments. Replacements for >10 years old laptop that currently students are using.
Cost
99,000
Level of need, with 1 being the most pressing
1
FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)
Year of Request
2022 - 2023
Resource Type
Instructional Equipment
Resource Name
Water baths
Resource Description

Goals & Resource Requests

Small water baths for use during lab.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Students need these water baths to facilitate their lab experiments and to arrive at a desired results.

Cost
1,100

Level of need, with 1 being the most pressing
2

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Rh Light box

Resource Description
Light box for viewing gels and materials.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Current light boxes have an issue with interference in taking pictures with phones.

Cost
825

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Analytical Balances

Resource Description
Analytical Balances

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Need replacement of the broken or non functioning equipments so that students will be able to use non defective analytical balances that are at par with the once use in the work place.

Cost

Goals & Resource Requests

7,480
Level of need, with 1 being the most pressing
2
<u>FOR ADMINISTRATIVE USE ONLY</u>

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)
Year of Request
2022 - 2023
Resource Type
Contract Services
Resource Name
Autoclave
Resource Description
For maintenance of the autoclave that is used by the entire biology classes.
Funds Type – Mark all that apply.
Recurring Cost
Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
This is needed in order to sterilized the equipments that are used by students during lab.
Cost
11,000
Level of need, with 1 being the most pressing
1
<u>FOR ADMINISTRATIVE USE ONLY</u>

Increase students success in the use of current lab equipments to fulfill the SLO in Anatomy.

To avoid misunderstanding in what students need to identify these pointers are necessary to achieve the course SLOs.
Year Initiated
2017 - 2018
Implementation Step(s) and Timelines
Once equipment is available, 70% of students will be able to conduct and to properly accomplish the lab activities.

Mapping
- <u>SKY Strategic Goals:</u> *(X - Hightlight Selected)*
  - **Student Support and Resources:** Ensure that all students have the support and resources needed to achieve their educational goals (**X**)

STATUS
Goal Status Date
11/15/2024
Academic Year Updated
2024 - 2025
Goal Status
On Schedule
Goal Status Narrative

Goals & Resource Requests

Some of the requested instructional equipment has been fulfilled, i.e. eye piece pointers, which made it easy for the students to identify specific cellular parts. However, some have not been acquired, i.e. microscope camera, which will help the instructors take pictures of the slides and models for teaching emphasis. Also, the models have not been acquired for the replacement of the models that are broken. We need these models in order for students to understand the human body and identify them properly.

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Slides

Resource Description
Prepared whitefish embryo slides, and other tissue slides for histology.

Funds Type – Mark all that apply.
Recurring Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Many are damaged or missing. These are necessary for students to understand embryology.

Cost
247.5

Level of need, with 1 being the most pressing
2

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2024 - 2025

Resource Type
Instructional Equipment

Resource Name
Microscope camera

Resource Description
Microscope camera

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Taking pictures of tissues and cells.

Cost
3,960

Level of need, with 1 being the most pressing
2

FOR ADMINISTRATIVE USE ONLY

Goals & Resource Requests

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Microscope eyepiece

Resource Description
Microscope eyepiece pointers.

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
This will facilitate the understanding of the cell parts that students will be looking at under the microscope.

Cost
1,320

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Torso model

Resource Description
Torso model

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Many are damaged or have missing parts. These are necessary for students to understand and complete their lab activities in order to move on to the next level.

Cost
6,050

Level of need, with 1 being the most pressing
1

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type

Goals & Resource Requests

Instructional Equipment

Resource Name
Slides

Resource Description
Prepared whitefish embryo slides, and other tissue slides for histology.

Funds Type – Mark all that apply.
Recurring Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Many are damaged or missing. These are necessary for students to understand embryology.

Cost
247.5

Level of need, with 1 being the most pressing
2

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Ear Model

Resource Description
Ear Model

Funds Type – Mark all that apply.
One-time Cost

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.
Many are damaged or have missing parts. These are necessary for students to understand and complete their lab activities in order to move on to the next level.

Cost
220

Level of need, with 1 being the most pressing
3

FOR ADMINISTRATIVE USE ONLY

Resource Request

Division Name
 Science, Technology, Engineering, and Mathematics (STEM)

Year of Request
2022 - 2023

Resource Type
Instructional Equipment

Resource Name
Microscope camera

Resource Description
Microscope camera

Funds Type – Mark all that apply.
One-time Cost

Goals & Resource Requests

Briefly explain how this request helps to advance the goals and priorities of your program, the College, the District, and/or the California Community College Chancellor's Office.

Taking pictures of tissues and cells.

Cost

3,960

Level of need, with 1 being the most pressing

2

FOR ADMINISTRATIVE USE ONLY