#28

COMPLETE

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Page 1: I. Program Overview and Update

Q1

1. Department(s) Reviewed:

Surveying

Q2

2. Lead Author:

Keenan Murray

Q3

3. Collaborator(s) - list of any person that participated in the preparation of this report:

Respondent skipped this question

Q4

4. Dean/Manager(s):

George Dowden

Q5

5. Initial Collaboration Date with Manager/Dean:

Enter the initial date you met **01/05/2024** with your dean to discuss your program review using this format: MM/DD/YYYY

Q6

6. Program Update (Required): Please summarize the changes, additions, and achievements that have occurred in your program since the last program review. You can access 2022 program reviews on the program review webpage.

Fall 2022 we offered SURV-220 and SURV-240, which we normally only offer in Spring semesters, because in Spring 2022 the instructor dropped the SURV-220 and SURV-240 courses. Fall 2022 enrollment in SURV-220 and SURV-240 was 18 and 17 students, respectively. This enrollment was large enough to run the courses, but the courses were not filled. A similar and related conclusion is deducted from the surveying data for Spring 2023.

In Spring 2023, the student demand/enrollment for SURV/ENGR-218 increased significantly to 58 students from 32 students in Spring 2022. Due to the demand, we offered 2 sections of the course for the first time since I became the Surveying coordinator. Of the 58 students in Spring 2023, 20 of them were specifically surveying students and 38 engineering students. While the surge in enrollment is encouraging, it was a result of increased enrollment of engineering students from 18 students in Spring 2022 to 38 students in Spring 2023, while the enrollment of surveying students increased from 15 students in Spring 2022 to 20 students in Spring 2023. While the influx and support of engineering enrollment is appreciated, we need to implement methods and techniques to encourage enrollment of surveying students into our program.

Currently, myself (Keenan Murray) and our adjunct faculty have been performing outreach for the Surveying program at career fairs and K-12 outreach events. The impacts of this outreach may become evident over the next few years as the K-12 students graduate. Charlene Alsbaugh has also been talking with the local high schools to determine an interest of creating or collaborating with high schools to make a clear pathway to our Surveying program. Additionally, we have created and met with our Industry Advisory Board to determine how we may improve our curriculum for industry needs and inspire students to enroll in our program. Based on the Boards recommendation, we are in the process of outlining a curriculum for a Drone Surveying Certificate to meet the needs of industry and simultaneously attract students to enroll due to the novelty of working with drones. This work is moving forward, however, my time as coordinator is limited. Currently, my release time for the coordinator position is 0.055 LED. If we want to pursue growing this program both in content and in enrollment, we need a full-time faculty member organizing the efforts. We need someone who intimately knows the industry and is qualified to broaden our curriculum. Hence, I will be asking again this year for a full-time faculty hire.

Page 2: II. Assessment and Student Achievement

Q7   **Yes**

7. Did your program complete and submit SLO assessment in the last year? If you are unsure, check the most recent updates on your program's SLO Assessment Updates.

Q8

7a. Which SLOs did you assess in the last year?If you did not assess in the last year, please share why, including whether your program is experiencing barriers to assessment or data submission, and/or if your program would benefit from outcomes and assessment support.

SURV-218 has 3 SLOs that were assessed.

o   SURV-220 and SURV-240 need to be assessed. These courses were offered last FA22, but they are scheduled to run this SP24 and I will support the SLO assessments. I do not believe the instructor has assessed SLOs before, so support from Tania and Rachel in this endeavor would be greatly appreciated! They helped Don Woolley to assess SURV-218 SP23 and it was greatly appreciated!

Q9

8. Please share any outcomes assessment projects your program has worked on in the last year, including SLOs on Canvas, PLOs by ACP, Equitable Assessment Strategies (innovative collective/common assessments, project-based, work-based learning, student-centered, etc.), or other.

As the coordinator with limited release time, I have been focusing my time on engaging our industry advisory board, industry engagement, and new course/certificate developments to encourage growth in surveying enrollment. Don Woolley has also been an amazing liaison who has been engaging high school students at outreach events to encourage enrollment into our program. Charlene Alsbaugh has been talking with high schools to determine if a direct pathway could be made to our surveying program. Hence, we have not been directly focused on outcome assessments outside of reviewing our curriculum with our industry advisory board.

Q10   **Respondent skipped this question**

OPTIONAL: You may upload a copy of any assessment-related documents here. If you have an Excel sheet, please convert it to one of the supported files listed below before submission.

Page 3: II. Assessment and Student Achievement

Q11

9. Please discuss any equity gaps in access or success

SP23 we offered 2 sections of SURV-218. The data reflects a success equity gap for the Hispanic/Latinx demographic group. However, this determination is based on 6 of the 8 Hispanic/Latinx students compared to 5 of 6 White/non-Hispanic students were successful. Due to the smaller enrollment of surveying students, this equity gap hinges on the success of a single student.

FA23 we offered SURV-220 and SURV-240, which followed a similar pattern to SP23 with the retention and success rates of the Hispanic/Latinx students differed from the White/non-Hispanic students by a single student. A difference between enrollment for SP23 compared to FA22 was that for the advanced SURV-220 and SURV-240 courses, the majority student demographic switched from Hispanic/Latinx students (For SURV-218) to White/non-Hispanic. With limited enrollment I am hesitant to make conclusions on the data, but this trend should be continued to be observed to determine if and why the Hispanic/Latinx are disproportionately not completing the surveying pathway.

Even with limited enrollment, the difference in enrollment based on gender is evident, with about 75% of our students identifying as Male. With our work to increase enrollment in the surveying program, we hoped to also engage and encourage non-Male gender enrollment.

Q12

10. What action will the department or discipline take to address these equity gaps? If equity gaps have been reduced or eliminated, please share what the program did to achieve this. If equity gaps still exist, consider the specific steps your department will take to address equity gaps.

We need more enrollment (larger data size) to determine the existence of equity gaps. The disparity of enrollment based on gender is clear with our limited data set, so when we perform outreach, we need to ensure we are engaging and encouraging students who identify as non-Male to enroll in our Surveying program. We will be working against the industry norm as the surveying field is male dominated.

Q13

11. How has this data impacted the goals set in your previous comprehensive program review?

Our 2 goals from program review are 1) Provide students with training on equipment and technology used in the field 2) Create an apprenticeship program to create opportunities for program graduates.

The data does not directly impact these goals, but as we previously mentioned, our goal is to increase enrollment in the program as there is high demand for surveyors in industry. Our situation is optimal as we are the main surveying educator in San Diego and industry continually reaches out to us asking for surveying students. If we boost enrollment, we can place students in industry with relative ease.

Q14

12. Please describe the most significant or impactful ways your program worked across the college to advance the college's vision of equity, excellence and social justice through education over the past year.

We have been engaging in outreach to high schools to promote the surveying program and establish a pathway for students into and through our program and to boost enrollment. To help clarify the path, we have been reviewing our curriculum with our industry advisory board and have plans to create a drone certificate to better serve the needs of industry and make sure our students are competitive in industry.

Q15

13. What challenges is your program still experiencing due to the disruption of operations caused by the pandemic and the need to offer services in various modalities?

We do not currently offer courses in modalities other than face-to-face. Our industry advisory board has mentioned that we should explore other modalities for non-lab courses.

Q16

OPTIONAL: Please upload any documentation you would like to include as part of your responses to this section of the program review.

Respondent skipped this question

Page 4: II. Assessment and Student Achievement continued

Q17

11. Does your department offer classes that are approved distance education courses?

No

Page 5: DE Course Success Rates

Q18

12. If there were differences in success rates for distance education (online) versus in-person sections of program courses in your last comprehensive program review, what has the department done to address these disparities? If online and in-person sections had comparable success rates, please describe what the program did to achieve that.

Respondent skipped this question

Page 6: III. Previous Goals: Update

Q19

Previous Goal 1:

Provide students with training on equipment and technology used in the field.

Q20

Previous Goal 1:

In Progress - will carry this goal forward into next year

Page 7: III. Previous Goals: Update continued

Q21

Please describe the results or explain the reason for deletion/completion of the goal:

Respondent skipped this question

Q22

Do you have another goal to update?

Respondent skipped this question

Page 8: III. Previous Goals: Update continued

Q23

Link to College Strategic Goal - Which College Strategic Goal does this department goal most directly support? (Check only one)

Increase equitable access (enrollment)

Q24

Action Steps for the Next Year: If you are requesting resources in order to achieve this goal, please list them below as action steps and specify the type of request (e.g., submit technology request for new laptop computers).

Last year we received donations from Trimble Inc in the form of equipment and software. This equipment is implemented in our SURV-218 and SURV-240 classrooms to ensure our students are using current and competitive technologies accessible in industry.

Based on the advice of our advisory board, we are creating a drone certificate to create a pathway for students to learn how to operate drones, collect drone data, and analyze the collected data. Hence, our next steps are to create the curriculum and acquire drones.

Action Steps
1. Request a full-time faculty position
   Currently we rely on adjuncts to teach our courses. Our main adjunct, Don Woolley, recently retired from industry and has decided to continue teaching. When Don decides to retire from teaching, we are hoping the other current adjuncts will fill his place. However, having a full-time faculty member would ensure the equipment we acquire and hope to acquire is used to its fullest potential in the long-term. The full-time faculty member will also be able to promote and grow the program with their fullest potential, while I (the coordinator) currently am able to only offer a small percentage of my time.
2. Request for equipment
. For our new drone certificate, we will need drones to train our students!

Q25

What resources, if any, are needed to achieve this goal? Please select all that apply. Links to request forms are included below. All resource requests are due on the program review deadline.

New faculty position,

Supplies, equipment, and/or furniture

Q26

Do you have another goal to update?

Yes

Page 9: III. Previous Goals: Update continued

Q27

1. Previous Goal 2:

Create apprenticeship program to create opportunities for program graduates

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Q28

3. Goal Status

In Progress-will carry this goal forward into next year

Page 10: III. Previous Goals: Update continued

Q29

Please describe the results or explain the reason for deletion/completion of the goal:

Respondent skipped this question

Q30

Do you have another goal to update?

Respondent skipped this question

Page 11: III. Previous Goals: Update (If Applicable) continued

Q31

Link to College Strategic Goal - Which College Strategic Goal does this department goal most directly support? (Check only one)

Increase completion and eliminate equity gaps (graduating with a degree/certificate, or transferring)

Q32

Action Steps for the Next Year: If you are requesting resources in order to achieve this goal, please list them below as action steps and specify the type of request (e.g., submit technology request for new laptop computers).

Our new Industry Advisory Board is bearing fruitful network opportunities with our industry partners. Caltrans is interested in creating an internship pipeline for Cuyamaca students into Caltrans as surveying professionals are in high demand. Birds Eye Arieal Drones is also interested in creating an internship pipeline into their company and industry and has proposed a collaboration through the state Learning-Aligned Employment program. While these relationships are not a true apprenticeship, developing and solidifying internship opportunities and relationships will help our students integrate directly into industry and provide them the students with real-world applications before they are finished with our program.

Action Steps
Request a full-time faculty position
      Currently we rely on adjuncts to teach our courses. Our main adjunct, Don Woolley, recently retired from industry and has decided to continue teaching. When Don decides to retire from teaching, we are hoping the other current adjuncts will fill his place. However, having a full-time faculty member would ensure any apprenticeship/intern relationships continue with their fullest potential in the long-term.

Q33

What resources, if any, are needed to achieve this goal? Please select all that apply. Links to request forms are included below. All resource requests are due on the program review deadline.

New faculty position

Q34

Do you have another goal to update?

Yes

Page 12: III. Previous Goals: Update continued

Q35

1. Previous Goal 3:

Increase stability of surveying instruction by hiring a full-time instructor

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Q36

3. Goal Status

In Progress-will carry this goal forward into next year

Page 13: III. Previous Goals: Update continued

Q37

Please describe the results or explain the reason for deletion/completion of the goal:

Respondent skipped this question

Q38

Do you have another goal to update?

Respondent skipped this question

Page 14: III. Previous Goals: Update continued

Q39

Link to College Strategic Goal - Which College Strategic Goal does this department goal most directly support? (Check only one)

Increase equitable access (enrollment)

Q40

Action Steps for the Next Year: If you are requesting resources in order to achieve this goal, please list them below as action steps and specify the type of request (e.g., submit technology request for new laptop computers).

In 2022-2023, we cancelled 3 of our sections because our instructor cancelled their commitment the week before the semester began. Considering the surveying program has only 3 different surveying courses, this is a very large portion of our course offerings! Additionally, we currently offer courses once a year, which means the students who wanted to take the courses had to either wait a year or find courses elsewhere. Since the only other local program is in LA, only students with resources and support can accommodate this major delay in education. If we want to increase surveying access to all students, we need to have consistent offering of surveying courses; otherwise our program will not be trusted by students and students with fewer resources may stop the program due to course offering interruptions. To increase the stability of the program, we should have at least one full-time faculty member.

This stability will also benefit the industry ties we have been fostering and the new drone certificate we are creating!

Action Steps
Request a full-time faculty position.
    Currently we rely on adjuncts to teach our courses. Our main adjunct, Don Woolley, recently retired from industry and has decided to continue teaching. When Don decides to retire from teaching, we are hoping the other current adjuncts will fill his place. However, having a full-time faculty member would ensure our courses continue to run consistently for the long-term and foster our industry ties.

Q41

What resources, if any, are needed to achieve this goal? Please select all that apply. Links to request forms are included below. All resource requests are due on the program review deadline.

New faculty position

Q42

Do you have another goal to update?

No

Page 15: III. Previous Goals: Update continued

Q43

1. Previous Goal 4:

Respondent skipped this question

Q44

3. Goal Status

Respondent skipped this question

Page 16: III. Previous Goals: Update continued

Q45

Please describe the results or explain the reason for deletion/completion of the goal:

Respondent skipped this question

Page 17: III. Previous Goals: Update continued

Q46

Link to College Strategic Goal - Which College Strategic Goal does this department goal most directly support? (Check only one)

Respondent skipped this question

Q47

Action Steps for the Next Year: If you are requesting resources in order to achieve this goal, please list them below as action steps and specify the type of request (e.g., submit technology request for new laptop computers).

Respondent skipped this question

Q48

What resources, if any, are needed to achieve this goal? Please select all that apply. Links to request forms are included below. All resource requests are due on the program review deadline.

Respondent skipped this question

Page 18: IV. New Goals

Q49

Would you like to propose any new goal(s)?

No

Page 19: IV. New Goals continued

Q50

1. New Goal 1:

Respondent skipped this question

Q51

2. Which College Strategic Goal does this department goal most directly support? (Check only one)

Respondent skipped this question

Q52

3. Please describe how this goal advances the college strategic goal identified above.

Respondent skipped this question

Q53

Respondent skipped this question

4. Please indicate how this goal was informed by SLO (student learning outcomes) assessment results, PLO (program learning outcomes) assessment results, student achievement data, or other qualitative or quantitative data (from any source):

Q54

Respondent skipped this question

5. Action Steps for this Year: If you are requesting resources in order to achieve this goal, please list them below as action steps and specify the type of request (e.g., submit technology request for new computer hardware).

Q55

Respondent skipped this question

6. How will this goal be evaluated?

Q56

Respondent skipped this question

What resources, if any, are needed to achieve this goal? Please select all that apply. Links to request forms are included below. All resource requests are due on the program review deadline.

Q57

Respondent skipped this question

Do you have another New Goal?

Page 20: IV. New Goals continued

Q58

Respondent skipped this question

1. New Goal 2:

Q59

Respondent skipped this question

2. Which College Strategic Goal does this department goal most directly support? (Check only one)

Q60

Respondent skipped this question

3. Please describe how this goal advances the college strategic goal(s) identified above.

Q61

Respondent skipped this question

4. Please indicate how this goal was informed by SLO (student learning outcomes) assessment results, PLO (program learning outcomes) assessment results, student achievement data, or other qualitative or quantitative data (from any source):

Q62

Respondent skipped this question

5. Action Steps for this Year: If you are requesting resources in order to achieve this goal, please list them below as action steps and specify the type of request (e.g., submit technology request for new computer hardware).

Q63

Respondent skipped this question

6. How will this goal be evaluated?

Q64

Respondent skipped this question

What resources, if any, are needed to achieve this goal? Please select all that apply. Links to request forms are included below. All resource requests are due on the program review deadline.

Q65

Respondent skipped this question

Do you have another New Goal?

Page 21: IV. New Goals continued

Q66

Respondent skipped this question

1. New Goal 3:

Q67

Respondent skipped this question

2. Which College Strategic Goal does this department goal most directly support? (Check only one)

Q68

Respondent skipped this question

3. Please describe how this goal advances the college strategic goal(s) identified above.

Q69

4. Please indicate how this goal was informed by SLO (student learning outcomes) assessment results, PLO (program learning outcomes) assessment results, student achievement data, or other qualitative or quantitative data (from any source):

Respondent skipped this question

Q70

5. Action Steps for this Year: If you are requesting resources in order to achieve this goal, please list them below as action steps and specify the type of request (e.g., submit technology request for new computer hardware).

Respondent skipped this question

Q71

6. How will this goal be evaluated?

Respondent skipped this question

Q72

WWhat resources, if any, are needed to achieve this goal? Please select all that apply. Links to request forms are included below. All resource requests are due on the program review deadline.

Respondent skipped this question

Q73

Do you have another New Goal?

Respondent skipped this question

Page 22: IV. New Goals continued

Q74

1. New Goal 4:

Respondent skipped this question

Q75

2. Which College Strategic Goal does this department goal most directly support? (Check only one)

Respondent skipped this question

Q76

3. Please describe how this goal advances the college strategic goal(s) identified above.

Respondent skipped this question

Q77

4. Please indicate how this goal was informed by SLO (student learning outcomes) assessment results, PLO (program learning outcomes) assessment results, student achievement data, or other qualitative or quantitative data (from any source):

Respondent skipped this question

Q78

5. Action Steps for this Year: If you are requesting resources in order to achieve this goal, please list them below as action steps and specify the type of request (e.g., submit technology request for new computer hardware).

Respondent skipped this question

Q79

6. How will this goal be evaluated?

Respondent skipped this question

Q80

What resources, if any, are needed to achieve this goal? Please select all that apply. Links to request forms are included below. All resource requests are due on the program review deadline.

Respondent skipped this question

Page 24: Final Check

Q81

Are you ready to submit your program review?If you would like to go back and review a section, select a section a click "Next."

I am ready to submit my program review