#30

COMPLETE

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Page 1: I. Program Overview and Update

Q1

1. Department(s) Reviewed:

Earth Science

Q2

2. Lead Author:

Keenan Murray

Q3

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

Miriam Simpson

Q4

4. Dean/Manager(s):

Tammi Marshall

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.

We are developing and updating our program to serve students seeking environmental and Kumeyaay degrees, as well as CalGETC-centered general education program with a student-centered introductory approach to science as a hands-on, living, local experience that incorporates both modern and traditional understandings of the local and global environment in order to make science and non-science students confident, informed citizens of a changing world.

Page 2: II. Assessment and Student Achievement

Q7

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.

No: Please describe the department's plan to update them: We will create a 4-year assessment schedule to ensure we properly assess active courses before our next comprehensive program review.

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.

No SLOs were assessed last year (2022-2023). Several SLOs were updated in 2022 and 2023 and some SLOs were assessed in SP22. We will create a 4-year assessment schedule to ensure we properly assess active courses before our next comprehensive program review.

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.

Our program is currently supported by 3 adjunct faculty who have shown commitment to teaching, the students, and the program by advancing their teaching practice through professional development, such as EMTLI, and our SEED community practice.

Q10

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.

Respondent skipped this question

Page 3: II. Assessment and Student Achievement

Q11

9. Please discuss any equity gaps in access or success

Our success rates have been comparable with the college, but we need to work on equity gaps in oceanography. Equity gaps in oceanography have been improving, however, one of our largest demographics for enrollment is Hispanic/Latinx and they have fluctuating success equity gap. The success rates for fall semesters were 56% in 2018 and fluctuated between 61%-72% between 2019-2022. In juxtaposition, the White Non-Hispanic group success rate in fall 2018 was 87% and fluctuated between 67%-90% through 2019-2022. The success rates for spring semesters for the Hispanic/Latinx group was 57% in 2019 and fluctuated between 64%-93% 2020-2023, compared to the White Non-Hispanic group with a success rate of 69% in 2019 and fluctuating between 63%-100% (100% was a single student) for 2020-2023. These fluctuating success rates in both groups caused intermittent periods of equity gaps.

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.

Our adjuncts have been learning and training in DEI practices, which aligns with the improvements in our program's equity gaps. The data over the last year suggests we need to focus on improving the success of our Hispanic/Latinx students, so we will collaborate to hypothesize the causes of the equity gaps, propose changes to our teaching practices, and test our hypotheses.

Q13

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

Our comprehensive program review was last year and this year's data supports the goals we established.

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 envision a future program that serves students seeking environmental and Kumeyaay degrees, as well as CalGETC-centered general education program with a student-centered introductory approach to science as a hands-on, living, local experience that incorporates both modern and traditional understandings of the local and global environment in order to make science and non-science students confident, informed citizens of a changing world. A new department chair and loss of the only full-time instructor in the program in 2019 has led to an overhaul in teaching techniques among part time instructors. We have sent all willing instructors through EMTLI and most also participate in our equity-minded STEM community of practice. We have made progress on representation and equity during that time, but still have work to do. Our move to online has impacted progress and we plan to address this through changes in curriculum and further professional development.

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?

The pandemic caused a flip in our student enrollment. During and post-pandemic, we have been able to increase our programs enrollment by offering our courses, which are GE oriented, in the DE modality instead of in-person. Generally, DE courses require more time and effort to be DEI minded and to remove equity gaps. Our adjuncts have been working diligently to overcome this challenge.

Q16   **Respondent skipped this question**

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

Page 4: II. Assessment and Student Achievement continued

Q17   **Yes**

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

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.

We noticed a large increase in student enrollment in our courses by offering the courses in the DE modality. Therefore, we only offered one lab, OCEA-113, in-person the past year. The success rate in the in-person lab was higher, but enrollment was significantly lower. So we switched the lab to be DE as well. Our adjuncts acknowledge the challenges of creating DE labs and have been reviewing and updating their curriculum to address the challenges.

Page 6: III. Previous Goals: Update

Q19

Previous Goal 1:

Design more Equitable Courses

Q20   **In Progress - will carry this goal forward into next year**

Previous Goal 1:

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)

Eliminate equity gaps in course success (passing grade in class)

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).

We will continue to provide high quality training for faculty including Humanizing STEM and embedded tutoring.

Last review cycle we were ranked #2 for a full-time faculty hire and prepared for the hiring process when the process was paused. We hope in this review cycle we will continue to be ranked high because the involvement of a full-time faculty in the design of more equitable courses will promote longevity of equitable practices in the program.

Action Steps
• Hire Full-time faculty
• Hire Earth Science technician

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,

New classified position

Q26

Do you have another goal to update?

Yes

Page 9: III. Previous Goals: Update continued

Q27

1. Previous Goal 2:

Update Curriculum

Q28   **In Progress-will carry this goal forward into next year**

3. Goal Status

Page 10: III. Previous Goals: Update continued

Q29   **Respondent skipped this question**

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

Q30   **Respondent skipped this question**

Do you have another goal to update?

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

Q31   **Increase equitable access (enrollment)**

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

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 adjuncts have been working diligently to update the current curriculum. For our new proposed curriculum, we are waiting for the
hiring of our full-time faculty to ensure their expertise and knowledge is incorporated into the new curriculum. Additionally, it allows the
new full-time faculty to shape the program into a home for themselves. We plan to wait for the full-time faculty hire as we were ranked
#2 last review cycle and prepared for the hiring process when the process was paused. We hope in this review cycle we will continue
to be ranked high so we may include the full-time hire in the curriculum development process. While we wait to be updated on the
status of our full-time faculty new hire, we will begin mapping out our new curriculum so the hopeful new hire can review our proposed
plans and we can move forward more quickly.

Action Steps
•   Hire Full-time faculty
•   Hire Earth Science technician
•   Mapping of GIS curriculum
    We will explore the courses needed to create a GIS certificate that will help our students in industry
•   Work with Kumeyaay studies to identify new courses to explore local and global environmental issues.

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,

New classified position

Q34

Do you have another goal to update?

Yes

Page 12: III. Previous Goals: Update continued

Q35

1. Previous Goal 3:

Program Redesign in collaboration with Kumeyaay Studies

Q36

3. Goal Status

Not Started

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)

Respondent skipped this question

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).

At Cuyamaca college we are in a unique position to build an Earth & Environmental Science program that teaches students to become leaders for a better future by looking critically and restoratively at the past. Climate change is here and likely to worsen. Fires, floods, record storms, habitat loss, coastal retreat, and other crises are happening. Solutions to these issues require both understanding of our planet and creative problem-solving skills. There is a strong and growing movement to include both western and native science in the understanding of environmental sustainability (see links below). By collaborating with Kumeyaay studies, Biology, and Engineering, we propose to build a program that uses an inclusive curriculum emphasizing a balance of western and native science to educate voters in our community, get students and the community interested in appreciating and sustaining the planet, and gives our students access to the growing field of environmental jobs. We hope in creating this program we can employ students' interest in environmental issues and the community and cultural wealth of historically marginalized students give our students a voice in the future of our planet.

For our new proposed changes, we are waiting for the hiring of our full-time faculty to ensure their expertise and knowledge is incorporated. Additionally, it allows the new full-time faculty to shape the program into a home for themselves. We plan to wait for the full-time faculty hire as we were ranked #2 last review cycle and prepared for the hiring process when the process was paused. We hope in this review cycle we will continue to be ranked high so we may include the full-time hire in the curriculum development process.

Action Steps
• Hire Full-time faculty
• Hire Earth Science technician

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,

New classified position

Q42

Do you have another goal to update?

Yes

Page 15: III. Previous Goals: Update continued

Q43

1. Previous Goal 4:

GIS Courses & Certificates

Q44

3. Goal Status

Not Started

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)

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

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).

Currently we only have one adjunct faculty member versed in Geographical Information Science (GIS). This is a critical skill for geography (not to mention engineering, biology, oceanography, geology, anthropology, political science, and many other fields in the modern era) and traditional geography programs (this is what we have) have seen declining enrollments across the country (and world) for more than a decade with GIS essentially making up the difference. (https://www.aag.org/the-state-of-geography-data-and-trends-in-higher-education/)

For our new proposed changes, we are waiting for the hiring of our full-time faculty to ensure their expertise and knowledge is incorporated. Additionally, it allows the new full-time faculty to shape the program into a home for themselves. We plan to wait for the full-time faculty hire as we were ranked #2 last review cycle and prepared for the hiring process when the process was paused. We hope in this review cycle we will continue to be ranked high so we may include the full-time hire in the curriculum development process.

Action Step
• Hire Full-time faculty

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.

New faculty position

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

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

Q54

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

Q55

6. How will this goal be evaluated?

Respondent skipped this question

Q56

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

Q57

Do you have another New Goal?

Respondent skipped this question

Page 20: IV. New Goals continued

Q58

1. New Goal 2:

Respondent skipped this question

Q59

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

Respondent skipped this question

Q60

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

Respondent skipped this question

Q61

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

Q62

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

Q63

6. How will this goal be evaluated?

Respondent skipped this question

Q64

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

Q65

Do you have another New Goal?

Respondent skipped this question

Page 21: IV. New Goals continued

Q66

1. New Goal 3:

Respondent skipped this question

Q67

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

Respondent skipped this question

Q68

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

Respondent skipped this question

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