

Program Review & Planning (PRP)

PART 1: BASIC PROGRAM INFORMATION

Program Review is a self-study of your discipline. It is about documenting the plans you have for improving student success in your program and sharing that information with the college community. Through the review of and reflection on key program elements, program review and planning identifies program strengths as well as strategies necessary to improve the academic discipline, program, or service to support student success. With that in mind, please answer the following questions:

Discipline Name:	Physical Science
Department Name:	Physics & Engineering
Division Name:	Math, Natural Health, and Computer Sciences

Please list all participants in this Program Review:

Name	Position
Hector Garcia-Villa	Assistant Professor
Daniel Finkenthal	Professor/Chair

Number of Full Time faculty	1	Number of Part Time Faculty	3
------------------------------------	---	------------------------------------	---

Please list the Classified positions (and their FTE) that support this discipline:

One 20% Academic Department Assistance and One 50% Lab Technician

What additional hourly staff support this discipline and/or department:

Discipline mission statement ([click here for information on how to create a mission statement](#)):

The mission of Physical Science Program is to prepare students for transfer in various Physics, Chemistry, Earth Science, and related fields of study at four-year-universities by educating them in fundamental concepts, knowledge, critical thinking, and hands-on skills using industry standard equipment and laboratory techniques and skills of Physical Science.

List any new degrees and certificates offered within this discipline since your last comprehensive review:

Discipline Level Data: <https://sharepoint2.palomar.edu/sites/IRPA/SitePages/PRP%20Summary%20Source.aspx>

PART 2: PROGRAM REFLECTION

1. Program Analysis:

Reflect upon and provide an analysis of your summary data.

Overall the program enrollments and WSCH has been pretty sporadic over the years with no clear trend. Average enrollment has been 201 and WSCH has been 641. In year 2016 WSCH did increase to 566 (a 5% gain), but Fill Rate declined to 72% (a 17% decrease) and WSCH/FTEF declined to 566 (a 4.7% decrease) compared to the five year average.

Average Student Success Rate has been 63%, but has improved to 67% in 2016. The program has been in somewhat dis-array since there was no full-time faculty involved in the program for four of the previous five years. We are hopeful that there will be a big improvement in the coming year.

However, this program has been an ongoing struggle for the department. It serves as a general education science class and includes topics from physics, chemistry, astronomy, and geology. It is difficult to find physics faculty qualified to teach this class. The program might be better located in the Earth Sciences department since they have the expertise and facilities to teach the myriad subjects required.

2. Standards:

ACCJC requires that colleges establish institutional and program level standards in the area of course success rates. These standards represent the lowest success rate (% A, B, C, or Credit) deemed acceptable by the College. In other words, if you were to notice a drop below the rate, you would seek further information to examine why the drop occurred and strategies to address the rate.

Discipline Level Course Success Rate:

- A. The College's institutional standard for course success rate is 70%.
- B. Review your discipline's course success rates over the past five years.
- C. Identify the minimum acceptable course success rate for your discipline. When setting this rate, consider the level of curriculum (e.g., basic skills, AA, Transfer) and other factors that influence success

Standard for Discipline Course Success Rate:

70%

Why?

We believe the College's institutional standard is applicable to our program.

3. Program Update:

Describe your proudest moments or achievements related to student success and outcomes.

Our proudest moments in the last year were when students were able to build a simple electric motor in the lab using the ideas they had learned in the lecture.

Another very proud moment was when, after students took newly made online homework activities, they performed better in the exams.

4. Program Improvement:

What areas or activities are you working on this year to improve your program? Please respond to new data as well as feedback from last year's program review.

Professor Garcia-Villa has been hired to manage Physical Science Discipline. He is modifying Physical Science lab topics and continues to do so for next two years, while he is also working on standardize physical science lectures.

5. Unanticipated Factors:

Have there been any unanticipated factors that have affected the progress of your previous plan?

6. SLOACs:

Describe your course and program SLO activities this past year. How have you used the results of your assessments to improve your courses and programs? Refer to the SLO/PRP report – <https://outcomes.palomar.edu:8443/tracdat/>

Physical Science lectures are done. However, as mentioned above, the lab sections are under modification. It will take a few years before we can assess SLOAC.

PART 3: PROGRAM GOALS

1. Progress on Previous Year's Goals: Please list discipline goals from the previous year's reviews and provide an update by placing an "X" the appropriate status box .

Goal	Completed	Ongoing	No longer a goal
Better communication with CSUSM	X		
Upgrading/replacing PHSC lecture demo and lab equipment		X	
Secure 48 seat lecture room to parallel with the 24 student labs		X	

2. New Discipline Goals: Please list all discipline goals for this three-year planning cycle (including those continued from previous planning cycle):

Goal #1	
Program or discipline goal	Create lab curriculum and Student Lab Manual
Strategies for implementation	Identify faculty and secure NOHE
Timeline for implementation	Fall 2018
Outcome(s) expected (qualitative/quantitative)	Improved enrollments, outcomes, and course transferability
Goal #2	
Program or discipline goal	
Strategies for implementation	

ANNUAL PROGRAM REVIEW AND PLANNING

Timeline for implementation	
Outcome(s) expected (qualitative/quantitative)	
Goal #3	
Program or discipline goal	
Strategies for implementation	
Timeline for implementation	
Outcome(s) expected (qualitative/quantitative)	

PART 4: FEEDBACK AND FOLLOW-UP

This section is for confirming completion and providing feedback.

Confirmation of Completion by Department Chair

Department Chair	Daniel Finkenthal
Date	February 11th, 2018

***Please email your Dean to inform them that the PRP has been completed and is ready for their review**

Reviewed by Dean

Reviewer(s)	Margie Fritch
Date	March 13, 2018

1. Strengths and successes of the discipline as evidenced by the data and analysis:

Student project in proudest moments is wonderful.

2. Areas of Concern, if any:

Student success rate can be improved.

3. Recommendations for improvement:

Appropriate goals to address concerns.

***Please email your VP to inform them that the PRP has been completed and is ready for their review**

Reviewed by Vice President

Reviewer(s)	Jack S. Kahn, Ph.D.
Date	12/26/17

1. Strengths and successes of the discipline as evidenced by the data and analysis:

ANNUAL PROGRAM REVIEW AND PLANNING

2. Areas of Concern, if any:

3. Recommendations for improvement: