

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:	Drafting Technology
Department Name:	Design and Manufacturing Technologies
Division Name:	CTEE

Please list all participants in this Program Review:

Name	Position
Dennis Lutz	FT Faculty Member
Anita Talone	FT Faculty Member

Number of Full Time faculty	2	Number of Part Time Faculty	6
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Please list the Classified positions (and their FTE) that support this discipline:

Shared Department ADA

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

None

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

In direct alignment with Palomar College's mission statement, the Drafting Department is committed and focused on being the leading provider of education to influence positive change and excellence in the technical, mechanical, electrical, and industrial drafting disciplines. We celebrate diversity in cultures, beliefs, abilities and needs. We foster a culture of integrity, professional practices, ethical behavior, environmental responsibility and global sustainability. Our instructors will educate, nurture, and inspire our creative-minded drafting and design students immersing them in a culture of professional practices designed to evoke passion and inspiration in the pursuit of their professional goals. Our curriculum is inclusive of individuals pursuing educational enrichment, career and technical training and re-training, certificates of achievement, associate degrees, and transfer-readiness to private schools and universities. We equip students with the skills and confidence necessary to become engaging leaders of change in society while living respectfully and responsibly in a global society.

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

No new Degrees or Certificates

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.**

Our Fill Rate for 2016 was 98.99% ever so slightly down from 102.27% in 2015 , but up from 2104. Our numbers from 2011 to 2015 grew in spite of a college-wide trend of lower enrollment. Our Enrollment trend is steady with a slight decrease in students for Fall 2016. We had 58 fewer students than the previous year. One reason for this is that one of our 100% fill rate classes was moved to Industrial Technology. It was supposed to be co-listed with Drafting, but it did not make it into the schedule. Our students didn't know this and couldn't find the class in the schedule; therefore, the class had one person enrolled. This accounts for 50% of the drop. One thing to note is that one of our Drafting Full-Time Faculty was out on sick leave the entire Fall 2016 semester. The Adjunct had to co-teach her classes as well as teach their own classes. Additionally, co-listing our classes with the Engineering Department has made a great contribution to our steady enrollment.

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 have set are Success Rate at 70% in alignment of with the Overall Success Rate of the school. Every year the Drafting Department Success rate exceeds the Overall Success Rate. We are always in the 80% - 85% percentages with the exception of missing it by 1% in 2014-15. The Overall success rate for the past five years averages at 71.56% and the Drafting Department over five years averages at 82%.

Drafting Success Rates v. Overall Success

2016-17

Drafting Success - 80.80%

Overall Success - 72.20%

2015-16

Drafting Success - 83.80%

Overall Success - 71.70%

2014-13

Drafting Success - 79.00%

Overall Success - 71.00%

2013-12

Drafting Success - 82.00%

Overall Success – 71.50%

2012-2011

Drafting Success - 84.90%

Overall Success – 71.40%

3. Program Update:

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

A proud moment for us is in the Drafting Department is the amount of students we are able to place in the job market after achieving their Certificates. We keep track of our students and have them come into our current beginning and advanced classes to explain how the job search process was for them; how the interview process worked and what they were asked; and how they are doing in the job market. One of our students has worked at three different companies in the last year starting at an entry level salary of \$25.00/hr and is now making \$40.00/hr plus benefits. This is what a Certificate from Palomar College can do for our students. Another student started his job at \$27.00/hr 6 months ago; he is currently earning \$37.00/hr and is interviewing this week for a job at an even higher pay scale.

Another proud moment for us is Dennis Lutz putting together one of the highest quality Machining Labs for the Drafting Department, the Manufacturing Department and the Welding Department. Our students are able to work

on state of the art equipment literally a few feet away from their computers in the Drafting lab. This is all included in the price of tuition unlike other Programs to the west of us that charge \$5,000 for their program at an off-site location in conjunction with the city. Palomar owns our fabulous equipment and it operates on campus. This program is ready for lift-off.

Another proud moment for our students and the Darting Department is the amount of 1st Place ribbons, Best of Show ribbons and Best in State ribbons our students receive at the San Diego County Fair. Every year our students continue to produce excellent projects for the Fair. No year does any other school take as many high level ribbons than Palomar College.

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.

We are very, very excited that we were able to revive the Printer Circuit Board classes DT/ENGR 226 & DT/ENGR 227. The Intro class was scheduled for Fall 2017. We found a fabulous, young and enthusiastic PCB Designer to teach the class. The class has a capacity of 22 seats; however, the demand was so high that the instructor enrolled 30 students. The students that were unable to get one of the 22 computers, purchased the software for their laptops in order to take the class. Our students have been waiting for three years for this to happen. Finally, in year four the wait is over. Our students can now complete their AS or Certificate in Electro-Mechanical Drafting. Thank you Margie Fritch for believing in us!

Another class that we finally put in our schedule is the DT113 - Intro to Creo class. It premiered Fall 2017 and is filled to capacity. Creo is a sophisticated 3D Modeling software that is used at the highest level of Design and Drafting. The software is very expensive for companies to purchase (at one time \$10,000 per seat) so only big, successful companies could afford it. Right here is San Diego companies such as General Dynamics use this software. Our Adjunct Creo instructor works at General Dynamics. SDSU also teaches this software in their Engineering Program and we are hoping to finish the Articulation process for this class soon. It may be in place by the time you read this. Once again, our students are getting the most current, relevant software and classes available for the Drafting Industry.

Another great thing that happened this Fall was having one of our Adjunct going to AutoCAD University in Las Vegas for training. Never has one of our Adjunct gone to this event. It is the biggest training put on by AutoDesk, our main software vendor, and the premier industry leader for drafting software worldwide. All the high schools in San Diego County use AutoDesk products for their Curriculum.

5. Unanticipated Factors:

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

There was one very interesting turn of events in our class offerings. We have been teaching DT180 3D Studio Max – Introduction to Animation for about 25 years. This Fall (2017) the class was cancelled due to lack of enrollment. Ten days or so before the semester start there were only 5 students enrolled. This is odd since Fall is generally our largest enrollment semester and this class always fills. DT184 - Real Time 3D Technical/Game Animation is a Gaming class that was introduced to the Curriculum several years ago. It always fills and Spring of 2017 it was cancelled for lack of enrollments. That makes two classes for Animation that were cancelled for lack of enrollment in two semesters. . Additionally, there is a Drafting - Multimedia Certificate in the current catalog. We need to de-activate it. We do not have any demand for this Certificate. There has been discussion that it is not our Certificate, that it

belongs to another Department. If this is the case, we need to find out to whom it belongs. It is listed as ours in the school data that is compiled for the PRP. The classes and Certificate need further examination.

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/>

We had excellent assessment results for our SLOs. We learned that overall, our Drafting students have a solid grasp of technical applications. Students in our general drafting program complete our program with the required skills necessary to be sought after employees in our community.

Our assessment methods are very successful. Students are assessed with every lab assignment, drawing assignments and written tests. Their ability in the classroom directly correlates to their ability in the workplace. One thing we have been working on is the new generation of students lack of communication skills, social skills and social manners. It is part of our job to bring these skills up to an acceptable level. We teach workplace skills/behavior in every class.

Our SLO's are in complete alignment with industry standards and requirements. Our students are exceptionally prepared for industry. We are broadening our scope of classes and software to remain the most current and relevant program/training available. What needs improvement is the lack of space we have available to do what we need to do. We have a great need for more classroom space at night. We are limited in the number of night classes we teach because we only have two labs available. Night classes are extremely popular for the 25-49 age group. They are working people that need training/classes to advance in their careers and cannot come to day classes. This has been an issue for a very long time with no solution ever being addressed.

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
Review all Courses and Certificates		X	
Professional Development for FT and Adjunct Instructors		X	
Printed Circuit Board AS and Certificates Awarded		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

ANNUAL PROGRAM REVIEW AND PLANNING

Program or discipline goal	Find classroom/lab space for evening classes.
Strategies for implementation	Get with Dean, VP and Facilities to work it out.
Timeline for implementation	Fall 2018 if possible
Outcome(s) expected (qualitative/quantitative)	More enrollment!
Goal #2	
Program or discipline goal	Review, update and streamline Certificates
Strategies for implementation	Get with FT and Adjunct for discussions. Talk to our Advisory Committee.
Timeline for implementation	Spring of 2107 and Fall 2018
Outcome(s) expected (qualitative/quantitative)	Higher success rate, more enrollment, more AS and Certificates awarded
Goal #3	
Program or discipline goal	Expand the Machine Shop square footage and get an Aide to be with students in the shop or classroom so the Instructor can be with the students in the classroom or shop. There needs to be two people for safety purposes.
Strategies for implementation	Talk to Dean, VP and Facilities to make it happen.
Timeline for implementation	Spring 2018 or Fall 2018
Outcome(s) expected (qualitative/quantitative)	More students could be working at the same time instead of sitting around waiting for their turn.

PART 4: FEEDBACK AND FOLLOW-UP

This section is for confirming completion and providing feedback.

Confirmation of Completion by Department Chair

Department Chair	We need to incorporate the 3D MAX classes into the architectural rendering classes. Revit does a great job in animated "Walk throughs" but is lacking on realistic materials and lighting. Revit is proposed for the updated ID certificates and they could also use some 3D Max training for computer rendering. Dennis C. Lutz
Date	Feb. 8 2018

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

ANNUAL PROGRAM REVIEW AND PLANNING

Reviewed by Dean	
Reviewer(s)	Margie Fritch
Date	November 17, 2017
1. Strengths and successes of the discipline as evidenced by the data and analysis:	
Enrollment is strong in most classes and the job market is very good for graduates in drafting.	
2. Areas of Concern, if any:	
Lab and classrooms need remodeled so that they can be shared with Architecture and Interior Design since the technology and learning spaces are similar in many ways.	
3. Recommendations for improvement:	
Remodeled lab and classroom.	

***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	1/14/18
1. Strengths and successes of the discipline as evidenced by the data and analysis:	
<ol style="list-style-type: none"> 1. Mission statement is fantastic and inspiring 2. Program analysis is also well done- data included with analysis 3. Success rates are very impressive- what do you attribute this to? 4. Printer circuit board classes are really exciting and a definite accomplishment! 5. Thank you for your conscientiousness and deactivating courses and programs that aren't working right now- you are helping your colleagues and the students 6. Goals make sense given the narrative well done 7. Great annual report- thank you 	
2. Areas of Concern, if any:	
a. Next time take one more step with SLO discussion- name SLOs and conclusion- one level more specific will add a level of relevance here but discussion now is good overview	
3. Recommendations for improvement:	