

2022-23 Instructional Program Review and Planning OVERVIEW OF PROGRAM REVIEW AND PLANNING FOR INSTRUCTIONAL PROGRAMS

Program Review and Planning is about evaluating and assessing programs and documenting plans for improving student success rates. Through review of and reflection on key program elements, Program Review and Planning identifies program strengths and strategies necessary to improve the academic discipline, program, and/or services to support student success.

The College also uses Program Review and Planning as the conduit to request resources (human, technology, facilities and funding) to further help improve and support programs.

BASIC PROGRAM INFORMATION

Academic Year	Are you completing a comprehensive or annual PRP?		
2022-23	Annual		
Division Name	Department Name		
Mathematics, Science and Engineering	Chemistry		
	Choose your department. If you don't see it, you may add it by typing it in the box.		
Discipline Name			
Chemistry (CHEM)			
Choose your discipline. If you don't see it, you	may add it by typing it in the box.		
Department Chair Name	Department Chair email		
Jennifer Zabzdyr	jzabzdyr@palomar.edu		
Please list the names and positions of ever	yone who helped to complete this document.		
Jennifer Zabzdyr, Department Chair			
Heriberto Rivera, Professor			
Website address for your discipline			
https://www.palomar.edu/chemistry/			

Discipline Mission statement

The mission of the Palomar College Chemistry Department is to support student learning for success. Our primary goal is preparing our diverse student population for the pursuit of Bachelor degrees in Chemistry, as well as other Natural Science degrees with which they may enter the workplace. We provide students with the fundamental concepts, knowledge, and laboratory techniques in a healthy and safe environment.

(Click here for information on how to create a mission statement.)

Does your discipline have at least one degree or Are any of your programs TOP coded as certificate associated with it?

vocational (CTE/CE)?

O Yes ⊙ No

List all degrees and certificates offered within this discipline.

AS

Certificate of Achievement

AA. AS. ADT. Certificates, etc.

BASIC PROGRAM NFORMATION: FACULTY AND STAFFING RESOURCES

In this section, you will identify how many faculty and staff support your discipline's programs. This information is considered when you request permanent staff and faculty hires. It is also useful as you evaluate your program and the human resources and talent you have to support our students.

To help you answer questions in this section, you will need the links shown in red.

Enter the number of permanent or full-time faculty support your discipline (program)?

8

Enter a number.

Link: Permanent Faculty and Staff Count

For this past fall semester, what was your Fulltime FTEF assigned to teach classes?

189.55

Link: FTEF Data

For this past fall semester, what was your Parttime FTEF assigned to teach classes? (Part-time FTEF = PT hourly and overload.)

276.83

Link: FTEF Data

List the classified and other permanent staff positions that support this discipline. If possible, include number of months and percentage workload.

1 ADA. 12 months. 33%

3 ISA-IV, 12 months, 100%

Link: Permanent Faculty and Staff Count

List additional hourly staff that support this discipline and/or department. Include weekly hours.

2 Student Workers, 10 hours per week each

PROGRAM INFORMATION

In this section, you are asked to consider and evaluate your programs, including their program learning outcomes, the annual number of completions, goals for completions, and enrollment and efficiency trends.

PROGRAM LEARNING OUTCOMES

Begin this section by reviewing the Program Review reports for programs and courses in <u>Nuventive Improve</u>. All active course and program learning outcomes should be systematically assessed over a 3-year cycle. First, look at program learning outcomes.

- Program = Leads to a degree or certificate
- **Discipline** = A group of courses within a discipline

How well do your program's learning outcomes communicate the scope and depth of the degree/certificate offered? Please explain.

(1) Chemical Lab Technique: Successful students will be able to set up and execute general and intermediate chemical

reactions in the lab using a chemical technique.

(2) Application of the Scientific Method: Successful students will be able to apply the scientific method by stating a

question, performing experiments and/or analyzing a data presentation.

Problem solving using the scientific method and being capable of using chemical lab techniques are key requirements of

a degree of any type in chemistry. They are necessary skills for transfer students to have, so that they are prepared for

the more advanced upper division chemistry coursework.

How do they align with employer and transfer expectations?

Proficiency at general chemistry and organic chemistry lab techniques are prerequisites for upper division coursework at

a university, as is the ability to use the scientific method to solve general and organic chemistry problems.

Describe your program's plan for assessing program learning outcomes.

^{*}Programs will be able to complete program completion and outcome questions.

(1) Chemical Lab Technique: Laboratory Students will prepare specifically-selected, written lab reports for which a rubric

will be followed. The instructor will observe student technique/performance and evaluate it against a standard protocol.

Successful students will score 70% or higher.

(2) Scientific Method: In laboratory classes, students will prepare specifically-selected, written lab reports for which a

rubric will be followed. The instructor will observe student technique/performance and evaluate it against a standard

protocol. In lecture classes, students will be evaluated using embedded questions on final exams. Successful students

will score 70% or higher. Students in the final course in the program (CHEM 221) will be given a comprehensive

(national), final examination administered by the American Chemical Society and evaluate it against the national score

results. Successful students will score in the 60th percentile or higher on the ACS exam.

Summarize the major findings of your program outcomes assessments.

- (1) Chemical lab technique: At the last assessment, 79% of students scored 70% or higher.
- (2) Scientific method: At the last assessment,79% of students scored in the 60th percentile or higher on the ACS exam

PROGRAM COMPLETIONS

Student success is at the core of what we do in assisting students in achieving their goals.

The Chancellor's Office Vision for Success stresses the importance of Program Completion as a major goal for our students. In addition, transfer and career readiness are key components of Palomar College's mission statement. This year, our funding formula has also changed reflecting this emphasis, providing additional funding as a function of the number of completions.

In this section, you will reflect upon the number of completions students earned for EACH degree/certificate you offer. As required for accreditation, you are also asked to set a standard which represents the lowest acceptable number of completions and a stretch goal for increasing the number of awards.

Link: **Program Completions**

Access the link above titled "Progam Completions" and copy and paste five years of completion data for each of your discipline's degrees and certificates.

2016-17: 2 AS Degrees and 2 Certificates of Achievement

2018-19: 2 AS Degrees and 2 Certificates of Achievement

2019-20: 2 AS Degrees and 2 Certificates of Achievement

2020-21: 1 AS Degrees and 3 Certificates of Achievement

2021-22: 6 AS Degrees and 5 Certificates of Achievement

Have your program completions Increased, decreased, or stayed the same over the last 5 years?

⊙ Increased ○ Stayed the same ○ Decreased

Choose one

What factors have influenced your completion trends?

Students are encouraged by their professors and counselors to apply for the degrees for which they qualify.

Our accrediting body, ACCJC, and the Federal Department of Education requires that colleges establish standards and goals for student success and completion.

A program-set standard for completion represents the lowest number of program completion you deem acceptable for your program. In other words, if you were to notice a drop below the set standard, you would seek further information to examine why this occurred and strategies to increase completions.

A program stretch goal for completions is the number of completions you aspire to award for each program in your discipline.

To determine your stretch goal, consider the number of annual completions you typically award over time, then consider strategies or efforts you are making to increase completions in your program. Then identify the NUMBER you want to set as your goal.

Program Information Summary

In this section you are asked to evaluate your programs by considering their program learning outcome assessments, the annual number of completions, goals for completions, enrollment and efficiency trends and any other internal or external factors that had an impact on your program.

What factors have contributed to the success of your program(s)? Describe how they have contributed.

Our program outcome assessments lead us to believe that our program is successful in preparing the chemistry student

to transfer as a chemistry major to a 4-year school. Our enrollment and efficiency is following the trends of the college as a whole.

What factors have presented challenges for your program(s)? Describe the impact of these challenges.

The number of completions do not reflect the success of our program. We have many students complete our program to fulfill transfer requirements for their major, but only a small number petition for the degree.

COURSE INFORMATION

In this section, you will review how students perform in the courses you offer as part of your program. The Chancellor's Office Vision for Success goals focus on eliminating equity gaps and increasing timely completions. Examining, reflecting upon, and developing strategies to improve course success rates is one way to help the college meet its Vision for Success Goals and support our students in reaching theirs.

Data are provided to help you examine differences in course success rates (C or better) across student demographic categories (e.g., gender) and course type (e.g., face-to-face, online).

After you complete your review of course success data, you are asked about the assessment of student learning outcomes at the course level, progress you have made in these assessments, and changes you have implemented as a result.

COURSE SUCCESS AND RETENTION

ACCJC also requires that colleges establish institutional and program level standards and stretch goals for course success rates.

Program-set standards for course success rates represent the lowest success rate deemed acceptable by your discipline. 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. The College's institution-set standard for course success rates is 70%

Program-set stretch goals for course success rates represent the success rates you aspire your students to achieve.

The data includes overall success (% C or better) and retention rates (% No Ws). The data tables include course rates by gender, age, ethnicity, special population, location, and modality (You can access the Student Equity Plan on the SSEC website https://www2.palomar.edu/pages/ssec/)

What is your program's standard for Discipline COURSE Success Rate?

60.0%

The College's institutional standard for course success rate is 70%. To access college success rates. Click on the link below.

Link: Course Success Rate Information

UPDATE 9/26/2022: The Course data links are under construction and will be operational shortly. This note will be removed when then link becomes functional again. Apologies for the inconvenience.

Why did you choose this standard?

Chemistry is a challenging subject so 60% is a realistic success rate.

What is your stretch goal for course success rates?

65.0%

How did you decide upon the goal?

Recent success rates have dropped from an average of 64.4% (Fall 2015 through Fall 2019) to 60.0% (Fall 2020). This

is probably due to the switch to online learning resulting from COVID. Increasing success rates up to 65% is a realistic

stretch goal.

COURSE STUDENT LEARNING OUTCOMES (SLOs)

Summarize the major findings of your course level student learning outcomes assessments.

In our general chemistry lecture sequence, chem 110 and 115, 72% of students met the learning outcome for the

courses. In the general chemistry lab sequence, chem 110L and 115L, 76% of students met the learning outcomes. In

our organic chemistry sequence, chem 220 and 221, 82% and 62% of students met the learning outcomes, respectively.

Course level SLOs can be accessed through Nuventive Improve

Excluding courses that haven't been offered in the last three years, do you confirm that all of your courses have been assessed in the last three years.

⊙ Yes ○ No

This section is intentionally blank for annual PRPs. Please click "Next" to continue.

CAREER AND LABOR MARKET DATA

The Chancellor's Office Vision for Success stresses the importance of increasing the percent of exiting students who report being employed in their field of study. It is important for us to consider how <u>all</u> of our programs connect to future careers.

Go to this website https://www.onetonline.org/ and enter your discipline in the bubble on the top right for ideas about potential occupations. Click on an example to see more detail.

What kinds of careers are available for people who complete your programs (and/or transfer)? (Refer to O*net Link below) Are there any new or emerging careers? If so, how would the new or emerging careers impact your future planning?

Chemistry teachers, chemical technicians, chemists, professors, chemical engineers, biochemical engineers, soil/plant

scientists, chemical equipment operators, medical/clinical lab technologists/technicians, biochemists, biophysicists,

quality control/analysis. Careers with a bright outlook include medical/clinical lab technologists/technicians, biochemists,

biophysicists, and quality control analysts.

Link: https://www.onetonline.org/

What are the associated knowledge, skills, abilities (KSA's) needed for the occupations listed above? (click examples in the link above to get ideas)

Most require a minimum of a B.S. degree in chemistry or biochemistry. Some occupations require a graduate degree in

chemistry or biochemistry. Knowledge, skills, and abilities will vary, but will include:

KNOWLEDGE

Chemistry — Knowledge of the chemical composition, structure, and properties of substances and of the chemical

processes and transformations that they undergo. This includes uses of chemicals and their interactions, danger signs,

production techniques, and disposal methods.

Mathematics — Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

SKILLS

Science — Using scientific rules and methods to solve problems.

Critical Thinking — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions,

conclusions or approaches to problems.

Reading Comprehension — Understanding written sentences and paragraphs in work related documents. Active Listening — Giving full attention to what other people are saying, taking time to understand the points being

made, asking questions as appropriate, and not interrupting at inappropriate times.

Mathematics — Using mathematics to solve problems.

ABILITIES

Deductive Reasoning — The ability to apply general rules to specific problems to produce answers that make sense.

Inductive Reasoning — The ability to combine pieces of information to form general rules or conclusions (includes

finding a relationship among seemingly unrelated events).

Oral Comprehension — The ability to listen to and understand information and ideas presented through spoken words

and sentences.

Written Comprehension — The ability to read and understand information and ideas presented in writing. Mathematical Reasoning — The ability to choose the right mathematical methods or formulas to solve a problem.

How does your program help students build these KSA's?

KNOWLEDGE: Our program teaches students the chemistry knowledge they will need in order to transfer and pursue a

more advanced degree in chemistry or biochemistry.

SKILLS: Critical thinking is a key component of all our courses and one of our program SLOs. Problem solving, using the

scientific method, is emphasized in all of our classes.

ABILITIES: Oral and written communication skills are learned in the lab, through the writing of lab reports and giving oral

presentations.

Work Based Learning

Applied and work-based learning (WBL) allows students to apply classroom content in professional settings while gaining real-word experience. WBL exists on a continuum that reflects the progress of experiences from awareness-building to training. Students often cycle back through the continuum many times throughout college and throughout their career. Faculty play a critical role in ensuring these experiences are embedded into curriculum and support learning.

Have you incorporated work based learning (work experience, internships, and/or service learning) into your program?

O Yes ⊙ No

Do you want more information about or need assistance integrating work-based learning into your program?

O Yes O No

How do you engage with the community to keep them apprised of opportunities in your program?

We offer service-learning opportunities for our students through our chemistry club.

For example: regular meetings with community partners, connections with local High Schools, dual enrollment, Universities, business partnerships, Palomar events (i.e. Tarde de Famiila, House of Humanities), and/or community groups (i.e. chamber, associations, non-profits.

PROGRAM GOALS

Progress on Prior PRP Goals

In the most recent PRP cycle, you identied a set of goals Provide an update to your most recent PRP goals.

Click here for previous PRPs with goal information.

Prior PRP Goals

Goal 1

Brief Description

To update technology (chemical instruments, computers, and software) in order to remain current with chemical education pedagogy.

Goal Status

O Completed O Ongoing O No longer a goal

Add any comments related to your work on prior goal (e.g., success, challenges, reasons for eliminating a goal). Describe Outcomes, if any.

Online learning through Covid was a challenge. Since we were not on campus, we could not use the instrumentation we had, much less begin replacing outdated equipment. After coming back to campus (2 years later), much of our instrumentation is outdated or otherwise does not work.

Goal 2

Brief Description

To increase our presence in the community through outreach.

Goal Status

O Completed O Ongoing O No longer a goal

Add any comments related to your work on prior goal (e.g., success, challenges, reasons for eliminating a goal). Describe Outcomes, if any.

Outreach was put on hold during Covid. When possible, we would like to resume participation in STEM conferences and other outreach events outside of Palomar with our chemistry club, such as Science Night at San Marcos Middle School. Hosting and attending events such as these cost money, including but not limited to chemicals and other materials for demos, transportation costs, and compensation for time spent prepping for the events.

The Strategic Plan 2022 includes the College's Vision for Success (VfS) outcomes. Review the VfS goals and reflect on how your unit supports these outcomes. Identify one strategy your unit will implement to help the college meet these outcomes.

VFS Goal-2--Transfer. By increasing our course offerings, especially in organic chemistry, we could help students transfer sooner.

Click here to access the Strategic Plan 2022.

Describe any changes to your goals or three-year plan as a result of this annual update.

No changes.

RESOURCES

Congratulations! You are nearing completion. In this section, you will consider the resources you need to implement your three-year program review plan and/or address any findings from your assessment of your discipline.

The section is organized into the following five parts:

PART 1: Staffing Needs (Faculty and Additional Staff)

PART 2: Budget Review

PART 3: Technology Needs

PART 4: Facilities Needs

PART 5: One Time Request for Other Needs (NonTechnology Equipment, Supplies, Operating Expenses, Travel)

Reflect upon the three year plan you created above, your current operations, and any upcoming factors (retirements, changes in legislation, and changes in policies or procedures) that will impact your unit. How will you allocate resources to implement your plan? Describe additional resources needed to improve the effectiveness of your unit/program. All resource requests must be aligned with the College's Strategic Plan 2022.

Summarize any reallocation/re-organization of resources you are making based upon your three-year plan, your current operations, and any other factors (e.g., legislation). Describe the impact of the reallocation of resources to your unit.

NOTE: All requests listed in the PRP will be reviewed by deans and supervisors, then forwarded to the appropriate review group for prioritization. A resource requests approved to move forward in the review process does NOT guarantee a position or funding.

PART 1: STAFFING NEEDS

Requests for faculty will follow the prioritization process currently in place in the Faculty Position Prioritization committee, which reports to the Education, Equity, and Student Success Council. Requests for new staff positions will be prioritized at the division level and reviewed at Exec.

Are you requestiong additional full-time faculty? ○ Yes ⊙ No

Are you requesting AA, CAST for Classified Staff? ○ Yes ⊙ No

PART 2: BUDGET REVIEW

Review your Budget/Expenditure reports for fiscal year 2019, 2020, 2021. Consider your three-year PRP plan.

Click on the link below to access directions to the Available Budget Report to complete this section.

How to Request the Available Budget Report

Reflecting on your three-year PRP plan, are there any budet considerations you would like your dean/supervisor to be aware of for the upcoming year?

○ Yes ⊙ No

PARTS 3, 4 and 5 – TECHNOLOGY, FACILITIES AND OTHER NEEDS

One-Time Fund Requests. Through the PRP process the college implements an approach for
prioritizing ad allocating one-time needs/requests. Prioritization takes place through the appropriate
groups, leadership, and the Budget Committee. The executive team and Resource Allocation
Committee consider various sources for funding PRP requests. Resource requests also inform the
larger planning process like Scheduled Maintenance Plans, Staffing Plans, and institutional
strategic planning.

For more information about funding sources available, see <u>IELM BLOCK GRANT, LOTTERY, PERKINS AND STRONG WORKFORCE GUIDELINES</u> (on the left menu of the webpage).

If you are a CTE program and think you may qualify for CTE funds for your PRP request(s), you are STRONGLY encouraged to answer the call for Perkins/Strong Workforce grant applications in February. Contact the Dean of CTEE for additional information.

Consider submitting one-time requests only if you have verified that you cannot fund the request using your general discretionary funds or other funds.

2. Technology and Facilities Review. Requests for technology and facilities are assessed by the Deans and then, if appropriate forwarded to the proper institutional group (e.g., technology review committee, or facilities) for review and feedback.

PART 3: TECHNOLOGY NEEDS

Will you be requesting any technology (hardware/software) this upcoming year? ⊙ Yes ○ No

Technology Request

Technology Request 1

What are you requesting?

ChemDraw software for our 2 organic chemistry faculty

Is this a request to replace technology or is it a request for new technology?

New Technology

Provide a detailed description of the the request. Inlude in your response:

a. Description of the need? (e.g., SLO/SAO Assessment, PRP data analysis)

This is a necessity for organic chemistry professors and professionals and we are the only campus in North County that lacks access to ChemDraw. Without it, our faculty have had to bend over backwards and work with terrible programs to get work done. They have added hours to their own work simply because they lack access to this very basic tool.

b. Who will be i	mpacted by its impleme	ntation? (e.g., individual, gı	roups, members of department)
Organic chemis	try faculty and organic che	emistry students	
c What are the	expected outcomes or i	mpacts of implementation?	
	be much more efficient.	inpute of implementation.	
d. Timeline of in	mplementation		
3 months			
	icipated cost for this req ort, maintenance, etc.).	uest? If any, list ongoing c	osts for the technology
Approximately \$ so \$4520.	\$2260 per device with a pe	erpetual license. We currently	y have 2 full-time organic faculty,
Do you already	have a budget for this re	equest?	
No			
What PRP nlan	goal/objective does this	request align with?	
Goal 1: To upd		nstruments, computers, and	software) in order to remain
What Strategic	Plan 2022 Goal: Objective	e does this request align w	ith?
☐ 1:1			□ 1:4
□ 1:5	□ 2:1	□ 2:2	□ 2:3
☑ 2:4	□ 3:1	□ 3:2	□ 3:3
□ 3:4	□ 3:5	□ 4:1	□ 4:2
□ 4:3	□ 5:1	□ 5:2	
Refer to the Palo	omar College <u>STRATEGIC</u>	CPLAN 2022	
If you have mul this? (1 = Highe		ology and had to prioritize,	what number would you give
1			
	vill this request have on anges to a facility)?	the facilities/institution (e.g	j.,water/electrical/ADA
None			
Will you accep ⊙ Yes ○ No	t partial funding?		
Technology	Request 2		
What are you re	eauestina?		

What are you requesting?

2-in 1 Laptop/Tablets with Stylus (32)

Is this a reque	st to replace technology o	or is it a request for new	technology?
New Technolog	gy		
Provide a deta	iled description of the the	request. Inlude in your	response:
a. Description	of the need? (e.g., SLO/S	AO Assessment, PRP da	ata analysis)
instead we pos the cost associ	st electronic files for student	s to download. Unless sto If we could provide a tabl	s, we no longer use lab manuals; udents have a tablet, they still have et for students to use in the lab, they printing costs.
b. Who will be	impacted by its implemen	ntation? (e.g., individual,	, groups, members of department)
Students			
c. What are the	e expected outcomes or ir	npacts of implementation	on?
	•	•	ave to print their lab activities.
d Timeline of	implementation		
3 months	implementation		
	ticipated cost for this requoter, maintenance, etc.).	uest? If any, list ongoing	g costs for the technology
Approximately	\$50000 for 32 devices, a ch	narging cart, and adapters	3
Do you already	y have a budget for this re	equest?	
No	, J	•	
What PRP plan	n goal/objective does this	request align with?	
			nd software) in order to remain
	emical education pedagogy		,
What Stratogic	: Plan 2022 Goal:Objective	doos this request align	with?
			□ 1:4
□ 1:5	□ 2:1	□ 2:2	□ 2:3
☑ 2:4	□ 3:1	□ 3:2	□ 3:3
□ 3:4	□ 3:5	□ 4:1	□ 4:2
□ 4:3	□ 5:1	□ 5:2	
Refer to the Pa	lomar College <u>STRATEGIC</u>	PLAN 2022	
If you have mu this? (1 = High		logy and had to prioritiz	e, what number would you give
2			

What impacts will this request have on the facilities/institution (e.g.,water/electrical/ADA

compliance, changes to a facility)?

None

Will you accept partial funding? ⊙ Yes ○ No

PART 4: FACILITIES REQUESTS

Do you have resource needs that require physical space or modification to physical space? ⊙ Yes ○ No

Please include only those facilities requests that could be accomplished within a one-year time frame and/or under a \$75,000 estimated amount. Other facilities needs, such as buildings or remodels, should come through the long-range facilities planning process.

Facilities Requests

Facility Request 1

What are you requesting?

Removal of a non-working fume hood in NS-140 and installation of a full-size sliding white board and 2 full-size projector screens.

Provide a detailed description of the the request. Inlude in your response:

a. Description of the need? (e.g., SLO/SAO Assessment, PRP data analysis)

NS-140 is a lecture room and does not need a fume hood. The fume hood takes up wall space, so the room contains a very small white board, 1 full size projector screen, and 1 mini projector screen. The space would serve students and faculty better with a full-size white board and full-size screens.

- b. Who will be impacted by its implementation? (e.g., individual, groups, members of department)
 All students and faculty who use that room.
- c. What are the expected outcomes or impacts of implementation?

Faculty would have better tools for lectures and students could better see the board/screen.

d. Timeline of implementation

6 months

What is the anticipated cost for this request? If any, list ongoing costs for the request (additional equipment, support, maintenance, etc.).

Unknown

Do you already have a budget for this request?

No

What PRP plan goal/objective does this request align with?

•	date technology (chemical nemical education pedagog	•	nd software) in order to remain
What Strategic ☐ 1:1	c Plan 2022 Goal:Objectiv □ 1:2	ve does this request align ☐ 1:3	with? □ 1:4
□ 1:5	□ 2:1	□ 2:2	□ 2:3
☑ 2:4	□ 3:1	□ 3:2	□ 3:3
□ 3:4	□ 3:5	□ 4:1	□ 4:2
□ 4:3	□ 5:1	□ 5:2	
Refer to the Pa	olomar College <u>STRATEGI</u>	C PLAN 2022	
If you have mu (1 = Highest)	ultiple requests for faciliti	es and had to prioritize, v	what number would you give this?
	will this request have on hanges to a facility)?	the facilities/institution (e	e.g.,water/electrical/ADA
Will you acce ⊙ Yes ○ No	pt partial funding?		
PART 5: 0	OTHER ONE-TIM	E NEEDS	
			CK GRANT, LOTTERY, PERKINS department chair on the availability
		r items (e.g., Non-technol idget or other funding so	logy equipment, supplies, urces will NOT cover?
Requests			
Item 1			
What are you	requesting?		
Melting Point A	Apparatus		
Provide a deta	ailed description of the th	e request. Inlude in your	response:
a Description	of the need? (e.g. SI O/S	SAO Assessment, PRP da	ta analysis)

•	· •	·	our equipment. We have compared
	·		e of our equipment is over 20 years echnology, we waste valuable time
	•		mes in the lab, it is necessary to
	vorking equipment.	To assess learning outed	mes in the lab, it is necessary to
b. Who will be i	mpacted by its implemer	tation? (e.g., individual,	groups, members of department
Organic chemis	try students and faculty		
c. What are the	expected outcomes or ir	npacts or implementatio	n?
	• •	• •	m for transfer. Faculty will be able
to assess learni	ng outcomes in the organi	c chemistry lab.	
d. Timeline of in	mplementation		
3 months			
What is the anti	icinated east for this requ	uset? If any list angoing	costs for the request (additional
	port, maintenance, etc.).	destr if any, list ongoing	costs for the request (additional
\$6100 for 10 me	elting point devices		
Do you alroady	have a budget for this re	auget?	
No No	nave a budget for tills re	questr	
140			
What PRP plan	goal/objective does this	request align with?	
	ate technology (chemical in emical education pedagogy	•	d software) in order to remain
Maria - 1 - 04 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 1 1 1 1 1 1 - 1 1 1 1 1 - 1 1 1 1 1 1 1	DI 0000 O !/Ol-! (!	d (1/2	74.0
wnat Strategic ☐ 1:1	Plan 2022 Goal/Objective ☐ 1:2	e does this request aligh	witn? □ 1:4
□ 1:5	□ 2:1	□ 2:2	□ 2:3
☑ 2:4	□ 3:1	□ 3:2	□ 3:3
□ 3:4	□ 3:5	□ 4:1	□ 4:2
□ 4:3	□ 5:1	□ 5:2	
Refer to the Palo	omar College <u>STRATEGIC</u>	PLAN 2022	
			vhat number would you give this
1			
	vill this request have on t anges to a facility)?	he facilities/institution (e	e.g.,water/electrical/ADA
compnance, cm	anges to a racinty):		

None

Will you accept partial funding?

0.1/					
Budget Category	1				
Non-technology E	Equipment (acct 60001	0 and per unit cost is >\$500)			
Please upload a MP Quote.pdf	copy of the quote, if a	vailable.			
Item 2					
What are you req	uuestina?				
Gas Chromatogra					
Guo omornatogre	aprily modiamente				
Provide a detaile	d description of the tl	ne request. Inlude in your re	esponse:		
a. Description of	the need? (e.g., SLO/	SAO Assessment, PRP date	a analysis)		
Our gas chromato	ography instruments ar	e old, time-consuming to use	(4-6 hours), and expensive to		
	•	·	e newer instruments are cheaper to		
		ould be able to run their own s	samples, providing them a more		
robust education.					
b. Who will be im	pacted by its implem	entation? (e.g., individual, ç	groups, members of department)		
Organic chemistr	y students and faculty				
c. What are the e	expected outcomes or	impacts or implementation	?		
	•	student experience in the lal			
d Timeline of im	nlomontation				
d. Timeline of im 3 months	piementation				
3 monus					
	What is the anticipated cost for this request? If any, list ongoing costs for the request (additional equipment, support, maintenance, etc.).				
\$6500 for 2 instru	ıments				
Do you already have a budget for this request?					
No					
What PRP plan q	oal/objective does thi	is request align with?			
	-		d software) in order to remain		
	nical education pedago	•	,		
What Charters! - D	llam 2022 C = = !/Olate = !!	do oo dolo waxaaa al'			
What Strategic P ☐ 1:1	lan 2022 Goal/Objecti □ 1:2	ve does this request align \ ☐ 1:3	witn? □ 1:4		
□ 1:5	□ 2:1	□ 2:2	□ 2:3		
□ 1:3☑ 2:4	□ 3:1	□ 3:2	□ 3:3		
⊻ 1 ∠.4	⊔ 3. I	⊔ ა.∠	ப ა.ა		

□ 3:4	□ 3:5	□ 4:1	□ 4:2
□ 4:3	□ 5:1	□ 5:2	
Refer to the Paloma	nr College <u>STRATEGI</u>	C PLAN 2022	
If you have multiple (1 = Highest)	e requests for faciliti	es and had to prioritize, v	what number would you give this?
2			
What impacts will to		the facilities/institution (e	e.g.,water/electrical/ADA
None			
Will you accept pa ⊙ Yes ○ No	artial funding?		
Budget Category			
Non-technology Eq	uipment (acct 600010	and per unit cost is >\$500)	
Please upload a co	opy of the quote, if a	/ailable.	
Item 3			
What are you requ	esting?		
pH Meters (15)			
Provide a detailed	description of the th	e request. Inlude in your	response:
a. Description of th	ne need? (e.g., SLO/S	SAO Assessment, PRP da	ta analysis)
	•	nd we need to replace them ess the pH meter SLO for C	n so that students can learn how to Chem 115L.
b. Who will be impostudents and facult		ntation? (e.g., individual,	groups, members of department)
	_		
_		impacts or implementatio	
the pH meter SLO f	•	with pH meters (rather than	in groups) and faculty can assess
d. Timeline of imple	ementation		
3 months			
	ated cost for this rec		costs for the request (additional
	· · · · · · · · · · · · · · · · · · ·	(no other ongoing costs)	
Do you already have	ve a budget for this r	request?	

No			
What PRP plan	goal/objective does this	request align with?	
	ate technology (chemical mical education pedagog		nd software) in order to remain
What Strategic □ 1:1	Plan 2022 Goal/Objectiv □ 1:2	e does this request align □ 1:3	with? □ 1:4
□ 1:5	□ 1:2 □ 2:1	□ 2:2	□ 2:3
☑ 2:4	□ 3:1	□ 3:2	□ 3:3
□ 3:4	□ 3:5	□ 4:1	□ 4:2
□ 4:3	□ 5:1	□ 5:2	
Refer to the Palo	omar College <u>STRATEGI</u>	C PLAN 2022	
If you have mul (1 = Highest)	tiple requests for faciliti	es and had to prioritize, v	what number would you give this?
3			
	vill this request have on anges to a facility)?	the facilities/institution (e.g.,water/electrical/ADA
None	<i></i>		
⊙ Yes O No	t partial funding?		
Budget Categor	-		
Non-technology	Equipment (acct 600010	and per unit cost is >\$500)	
Please upload a	copy of the quote, if av	ailable.	
☑ I confirm that and ready to be		is discipline have review	ed the PRP. The form is complete
Enter your email	address to receive a co	ppy of the PRP to keep fo	r your records.
jzabzdyr@palom	ar.edu		