



Welcome to Program Review

Merritt College - 2019

PHYS - Instruction

Annual Program Update

Program Overview

Please verify the mission statement for your program. If your program has not created a mission statement, provide details on how your program supports and contributes to the College mission.

The physics discipline's mission is to offer lower division college physics courses for students planning to transfer to four-year colleges or to apply to professional certificate programs in the various fields of allied health.

Program Total Faculty and/or Staff

Full Time

Thomas Renbarger

Part Time

Dean Simmons
Mason Eastman

The Program Goals below are from your most recent Program Review or APU. If none are listed, please add your most recent program goals. Then, indicate the status of this goal, and which College and District goal your program goal aligns to. If your goal has been completed, please answer the follow up question regarding how you measured the achievement of this goal.

1. Support Staff " Need to hire a permanent part-time lab technician by August 2019 to prepare and maintain the lab equipment for the Physics 2 and Physics 4 series labs.

Status

In-Progress

If Completed, What evidence supports completion of this goal? How did you measure the achievement of this goal?

College Goal

Completion: Increase number of degrees and certificates by 20% over the next 5 years.

District Goal

Advance Student Access, Equity, and Success

2. Curriculum expansion “ Add a lab component to Physics 10 by Fall 2020.

Status

In-Progress

If Completed, What evidence supports completion of this goal? How did you measure the achievement of this goal?

College Goal

Completion: Increase number of degrees and certificates by 20% over the next 5 years.

District Goal

Advance Student Access, Equity, and Success

3. Community Partnership Goal “ Build a pipeline to increase the diversity of the students in the Merritt College physics and astronomy disciplines by building a partnership between Merritt College, Chabot Space & Science Center, and the Boys & Girls Club of Oakland by Spring 2020.

Status

In-Progress

If Completed, What evidence supports completion of this goal? How did you measure the achievement of this goal?

College Goal

Equity: Reduce the achievement gaps for African-American, multiethnic and male students.

District Goal

Advance Student Access, Equity, and Success

Describe your current utilization of facilities, including labs and other space

The Physics 2 series classes have been held in S211. Physics 4 series and Physics 10 are held in S213. Physics 2 and Physics 4 has labs in S220, once per week per course. S219 holds the equipment used for physics labs and lecture demos.

Program Update

Semester End Enrollment/Usage Pattern

Review your Semester End Enrollment by setting the filter to your college and subject



Microsoft Power BI

< 1 of 5 >



Using the dashboard, review and reflect upon the data for your program. Describe any significant changes and discuss what the changes mean to your program. Consider whether performance gaps exist for disproportionality impacted students. Focus upon the most recent year and/or the years since your last comprehensive program review. Cite data points from the dashboard to support your answer.

Overall, the physics program has fairly high course completion and retention rates (84%/91% in 17-18 and 86%/92% in 18-19). There does not appear to be any statistically significant performance gaps based on gender or age. With regards to ethnicity, students who identified as Black/African American had noticeably lower course completion and retention rates than other students in the 18-19 academic year, but the gap is not present in the evening sections.

Describe the department's progress on Student Learning Outcomes (SLOs) and/or Administrative Unit Outcomes (AUOs) since the last Program Review/APU. If your discipline offers a degree or certificate, please describe the department progress on Program Learning Outcomes (PLOs).

Physics 10 was assessed since the last Program Review. Physics 2A and 4A are set to be assessed Fall of 2019. Physics 2B and 4B are to be assessed in Spring of 2020. PLO's are in need of assessment.

Describe the outcomes and accomplishments from previous year's funded resource allocation request.

Brief description of funded request	Source (any additional award outside your base allocation)	Total Award Amount	Outcome/Accomplishment
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In the boxes below, please add improvement actions and resource requests that are directly related to the questions answered in this section. If there are no improvement actions or resource requested in this area, leave blank.

Improvement Actions Improvement Action

Improvement Action

Action Item	Description	To be completed By	Responsible Person
Resource Requests	Resource Requests		

Resource Request

Personnel	Classified Staff		
% Time	Description/Justification	Estimated Annual Salary Costs	Estimated Annual Benefits Costs
50	Physics Lab Tech needed to do lab prep. Without a lab technician, it would fall to the instructor to do all the lab prep, which takes time away from other areas of course preparation (and college governance).	40000	6000
Total Costs			
46000			

Resource Request

Personnel	Student Worker		
% Time	Description/Justification	Estimated Annual Salary Costs	Estimated Annual Benefits Costs
40	Embedded Tutors	10000	0
Total Costs			
10000			

Resource Request

Supplies	Instructional Supplies and Materials		
Description/Justification		Estimated Cost	
Paper, ink, dry-erase markers, grading pens, etc.		900	

Resource Request

Technology and Equipment	Replacement		
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Description/Justification	Estimated Cost
The department is in need of replacement freefall experiment timers.	1000

Resource Request Summary

Total Cost: \$57900
 Total Resource Request: 4

Program Update					
Personnel					
Type	% Time	Description/Justification	Estimated Annual Salary Costs	Estimated Annual Benefits Costs	Total Costs
Classified Staff	50	Physics Lab Tech needed to do lab prep. Without a lab technician, it would fall to the instructor to do all the lab prep, which takes time away from other areas of course preparation (and college governance).	40000	6000	46000
Student Worker	40	Embedded Tutors	10000		10000
		Sub-Total: \$56000			

Professional Development
 No Resources found for this category

Technology and Equipment					
Type	Description/Justification	Estimated Cost			
Replacement	The department is in need of replacement freefall experiment timers.	1000			
	Sub-Total: \$1000				

Supplies					
Type	Description/Justification	Estimated Cost			
Instructional Supplies and Materials	Paper, ink, dry-erase markers, grading pens, etc.	900			
	Sub-Total: \$900				

Facilities
 No Resources found for this category

Library
 No Resources found for this category

Other
 No Resources found for this category

Sign and Submit

Please provide the list of members who participated in completing this program review.

Rebecca Uhlman
Dan Lawson
Tom Renbarger

Please enter the name of the person submitting this program review.

Rebecca Uhlman