



The mission of Merritt College is to enhance the quality of life in the communities we serve by helping students to attain knowledge, master skills, and develop the appreciation, attitudes and values needed to succeed and participate responsibly in a democratic society and a global economy

2020-2021

Annual Program Update

I. Introduction and Directions

The Peralta Community College District has an institutional effectiveness process which consists of the following components: a District-wide Strategic Plan which is updated every six years; Comprehensive Program Reviews which are completed every three years; and Annual Program Updates (APUs) which are completed in non-program review years. While there are individualized Program Review Handbooks for Instructional units, Counseling, CTE, Library Services, Student Services, Administrative units, and District Service Centers, there is one Annual Program Update template for use by everyone at the colleges which is completed in the Fall semester of non-program review years.

The Annual Program Update is intended to primarily focus upon planning and institutional effectiveness by requesting that everyone report upon the progress they are making in attaining the goals (outcomes) and program improvement objectives described in the most recent program review document. The Annual Program Update is therefore a document which reflects continuous quality improvement. The Annual Program Update serves a critical role in the Integrated Planning and Budgeting cycle of the college in that it provides a vehicle in which to identify and request additional resources that support reaching the stated goals (outcomes) and program improvement objectives in the unit's program review.

Throughout this document, the term "program" is used to refer to any of the following institutional structures: discipline, department, program, administrative unit, or unit.

If you have questions regarding data, please contact Nathan Pellegrin, Director of Research

and Planning (npellegrin@peralta.edu).

If you have questions regarding SLOs, PLOs, SAOs or ILOs, please visit the [SLOAC webpage](#), or contact the SLOAC committee member for your division:

Division 1 - Evan Nichols (anichols@peralta.edu)

Division 2 – Laura Forlin (lforlin@peralta.edu)

Division 3 – Heather Casale (hcasale@peralta.edu).

If you have questions regarding the curriculum section, please contact Nghiem Thai (nthai@peralta.edu), chair of the [Curriculum Committee](#).

If you have questions regarding other material in the APU, please contact your Dean or Manager.

This document contains hyperlinks to external documents, spreadsheets, and data dashboards. Some of the links will not work unless you are signed in to Office 365 through the [Peralta Faculty & Staff Portal](#).

You will need the following items in order to complete the Annual Program Update document at the colleges:

- [Program Review or APU document](#) from AY 2019-20.
- [Budget Information](#) for the current and prior fiscal year.
- Any comments or feedback provided during the program review validation process.
- College Goals and Peralta District Goals (see below).
- [Institution Set Standards](#).
- [College 2018 Educational Master Plan Update](#).
- [Guided Pathways Plan](#)
- [Student Equity Plan](#).
- Data drawn from program review dashboards and/or other sources relevant to your department, service area or administrative unit (see below).

Merritt College Institution-Set Standards 2020-2021

Institution-set standards are used to evaluate the quality of the institution as to success with respect to student achievement in relation to the institution's mission. The evaluation of student achievement performance may include different standards for different programs, as established by the institution.

Metric	Definition	Set Standard
Course Completion (Success)	the number of student completions with a grade of C or better divided by the number of student enrollments	66%
Certificates	Number of certificates earned in an academic year	222
Degrees	Number of associate degrees earned in an academic year	322
Transfer	Number of students who transfer to a 4- year college/university	187
Licensure (CE)	Examination pass rates in programs for which students must pass a licensure examination in order to work in their field of study	70%
Employment (CE)	The job placement rate of student completing a degree or certificate in a CE program in the year after graduation.	Macro-Region Employment Rate, by

College Profile

Student Body Demographics

	2017-18	2018-19	2019-20
Annual Unduplicated Count of Students	12,336	12,861	12,130
Gender			
Female	64%	64%	63%
Male	34%	34%	34%
Decline to State/ Unknown	2%	2%	3%
Race/Ethnicity			
American Indian	< 1%	< 1%	< 1%
Asian	19%	20%	19%
Black / African American	23%	23%	22%
Hispanic / Latino	31%	32%	33%
Pacific Islander	1%	< 1%	< 1%
Two or More	5%	6%	5%
Unknown / NR	4%	4%	5%
White	16%	16%	15%
Age			
18 and Under	15%	15%	16%
19-24	35%	35%	35%
25-29	16%	17%	16%
30-34	11%	11%	11%
35-54	17%	17%	17%
55 and Over	6%	6%	5%

Course Success Rates

	2017-18	2018-19	2019-20*
Total Enrollment (Duplicated Count)	33,288	33,637	32,928
Overall Success Rate	70%	70%	68%
Gender			
Female	70%	70%	69%
Male	69%	69%	66%
Decline to State/ Unknown	77%	74%	64%
Race/Ethnicity			
Black/African-American	62%	62%	60%
Asian	81%	80%	81%
Hispanic	68%	68%	64%
Native American	66%	72%	53%
Pacific Islander	61%	71%	63%
Two or More	65%	67%	68%
Unknown	72%	73%	66%
White	78%	78%	75%
Age			
Under 16	83%	91%	84%
16-18	73%	75%	69%
19-24	65%	66%	64%
25-29	70%	69%	68%
30-34	73%	73%	73%
35-54	74%	73%	71%
55-64	74%	71%	66%
65 and Over	77%	77%	60%

*Includes 'EW' grades

II. Program Overview

Mission Statement

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.

Faculty and Staff

List your Faculty and/or Staff. Indicate if they are part-time or full-time. (If names are already listed, they were imported from last year's APU/PR. Add or remove persons as needed to reflect current personnel).

Name	Faculty/Staff	PT/FT
Thomas Renbarger	Faculty	FT
SIMMONS,Dean	Faculty	PT
ASZTALOS,Stephen	Faculty	PT

III. Program Goals

In this section, indicate programs goals, the status of each, and how they align with College and District strategic goals. Following are the strategic goals for Peralta CCD and Merritt College.

<u>Peralta District Strategic Goals</u>	
P1.	Advance student access, equity, and success.
P2.	Engage and leverage partners.
P3.	Build programs of distinction.
P4.	Strengthen accountability, innovation, and collaboration.
P5.	Develop and manage resources to advance our mission.

<u>Merritt College Strategic Goals</u>	
M1.	Completion - Increase number of degrees and certificates by 20% over the next 5 years.
M2.	Transfer - Increase transfers to CSU and UC by 6% annually. (Reach approx. 35% in 5 years).
M3.	Time to Completion - Reduce the number of excess units earned by students.
M4.	Employment - Maintain at least 82% of students attaining employment in the field of study.
M5.	Equity - Reduce the achievement gaps for African-American, multiethnic, and male students.

Below are your Program Goals from your most recent Program Review or APU, if available. Indicate whether the goal has been completed (C), is in progress (IP), no longer applicable (NA), or new (NEW). Be sure to state goals which are *measurable* and *time-based*. Indicate which College and District goal your program goal aligns to. If your goal has been completed, what evidence supports completion of this goal? How did you measure the achievement of this goal?

Program Goal	Status (C, IP, NA, NEW)	Applicable College Goal(s)	Applicable District Goal(s)	If completed, describe supporting evidence, including measurements of achievements.
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.	IP	Completion: Increase number of degrees and certificates by 20% over the next 5 years.	Advance Student Access, Equity, and Success	

<p>Curriculum expansion Add a lab component to Physics 10 by Fall 2020.</p>	<p>IP</p>	<p>Completion: Increase number of degrees and certificates by 20% over the next 5 years.</p>	<p>Advance Student Access, Equity, and Success</p>	
<p>Community Partnership 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.</p>	<p>IP</p>	<p>Completion: Increase number of degrees and certificates by 20% over the next 5 years.</p>	<p>Advance Student Access, Equity, and Success</p>	

IV. Facilities Utilization

Describe your current utilization of facilities, including labs and other space.
Confirm previously reported content.

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.

V. Program Update Data

In this section you will review and reflect upon the data for your program. Use data which measure performance on outcomes relevant to the mission and goals of your program, which will vary according to which area of the college your program is in.

In your response, refer to data applicable to your program obtained from the APU dashboards and/or other sources.

APU Data Dashboards:

- [Course Completion and Retention Rates Dashboard – Instruction](#)
- [Course Completion and Retention Rates Dashboard – Student Services](#)
- [Enrollment Trend and Productivity Dashboard](#)
- [Degrees and Certificates Dashboard](#)

For departments or programs in the Student Services area, refer to reports provided by institutional data systems (i.e., PeopleSoft or SARS), results of student surveys, or external reports (i.e. [IPEDS](#) or [Launchboard](#)). Include the number of students served over an academic year and summarize their demographics.

For departments in the Business and Operations areas, use data which track the key function provided to the College, such as facilities usage for events, tickets received and closed, the number of invoices process or the time to disbursement.

Use historical data (3 years is recommended, if available) to estimate a baseline, then use this to project activity and inform requests for the coming year.

Describe any significant changes and discuss what the changes mean to your program. Consider whether performance or service 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 program review dashboards or other data sources relevant to your service, business, operations or administrative area to support your answer. If you wish, you may include screenshots of the dashboard to show filtered results containing the relevant figures. Instructions on taking screenshots for [Windows](#) and [Mac](#))

Academic Year	Term	Campus	Course	Description	Total Graded	Completions	Rate	Retained	Rate	Distance Education	Time of Day	Academic Year
2019-2020	F19	Merritt	PHYS 2A	GENERAL PHYSICS	36	33	91.7%	33	91.7%	Face to Face	EVENING	2019-2020
2019-2020	F19	Merritt	PHYS 4A	GEN PHYSICS W/CALCULUS	35	32	91.4%	33	94.3%	Face to Face	EVENING	
2019-2020	S20	Merritt	PHYS 2B	GENERAL PHYSICS	28	27	96.4%	27	96.4%	Face to Face	EVENING	Campus
2019-2020	S20	Merritt	PHYS 4B	GEN PHYSICS W/CALCULUS	47	45	95.7%	45	95.7%	Face to Face	EVENING	Merritt
Total					146	137	93.8%	138	94.5%			

Course Completion and Retention Rates by Subject

Academic Year
2019-2020

Campus
Merritt

Term
All

Service Area
All

Student Group
All

For more information
* Excluding MW and EW grades

Academic Year	Gender	Headcount	Census Enrollment	Completion	Completion*	Retention	Retention*
2019-2020	F	28	39	89.7%	89.7%	89.7%	89.7%
2019-2020	M	71	102	95.1%	95.1%	96.1%	96.1%
Total		99	141	93.6%	93.6%	94.3%	94.3%

Academic Year	Age	Headcount	Census Enrollment	Completion	Completion*	Retention	Retention*
2019-2020	16-18	7	7	71.4%	71.4%	71.4%	71.4%
2019-2020	19-24	55	82	93.9%	93.9%	95.1%	95.1%
2019-2020	25-29	24	34	97.1%	97.1%	97.1%	97.1%
2019-2020	30-34	11	14	100.0%	100.0%	100.0%	100.0%
2019-2020	35-54	8	9	88.9%	88.9%	88.9%	88.9%

Academic Year	Ethnicity	Headcount	Census Enrollment	Completion	Completion*	Retention	Retention*
2019-2020	Asian	35	50	94.0%	94.0%	94.0%	94.0%
2019-2020	Black / African American	18	25	96.0%	96.0%	96.0%	96.0%
2019-2020	Hispanic / Latino	24	34	91.2%	91.2%	91.2%	91.2%
2019-2020	Two or More	6	11	100.0%	100.0%	100.0%	100.0%
2019-2020	Unknown / NR	6	8	100.0%	100.0%	100.0%	100.0%
2019-2020	White	11	14	85.7%	85.7%	92.9%	92.9%

Subject
PHYS

COURSE
All

CTE
All

Distance Ed
All

Time of Day
All

Dual Enrollment
All

Residency
All

Note: Gender, Age and Ethnicity Groups with less than 5 are not featured in the tables in this report.

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

Course Number	Course Title	Course Status	# SLO's	# of SLOs	1	2	3	4	5	6	SLO Coordinator NOTE
PHYS	Phys 10	Introduction to Physics	Active	3	F'17	0	0	X	X	X	RED = NEEDS ASSESSMENT THIS SEMESTER YELLOW = NOT BEING TAUGHT THIS SEMESTER
PHYS	Phys 2A	GENERAL PHYSICS	Active	3	14-15	0	0	X	X	X	
PHYS	Phys 2B	GENERAL PHYSICS	Active	3	0	0	0	X	X	X	

PHYS	Phys 4A	GENERAL PHYSICS WITH CALCULUS	Active	3	F'17	14-15	14-15	X	X	X	
PHYS	Phys 4B	GENERAL PHYSICS WITH CALCULUS	Active	3	0	0	0	S19	X	X	

Describe the **results of** your department/program/service assessment of student and Program Learning Outcomes/AUO/SAO. Indicate when and where dialogue is occurring. Discuss **changes/updates/resource requests** made to your program based on the assessment of outcomes of the SLOs/PLOs/SAOs/AUOs assessed in the past year and discuss their alignment with the [ILOs](#).

The following item is for instructional programs only

Discuss how your PLOs align with the [ILOs](#).

n/a

VI. Curriculum

Note: If your department, program, or unit does not have a curricular component, please skip to the Section VII.

Curriculum review is an integral part of the program review process. Instructional departments and programs must consider the state of their curricula (i.e., courses, certificates, and degrees) in order to engage in meaningful assessment, planning, and continuous quality improvement.

In accordance with the [State Chancellor's Office Program and Course Approval Handbook \(7th Edition\)](#), California community college curricula must meet five criteria:

1. Appropriateness to the mission of the California Community Colleges (as established in [California Education Code § 66010.4](#))
2. Community, service area, or student need
3. Adherence to accreditation and higher education standards
4. Availability of adequate resources to maintain the course or program (including offering all required courses for a program at least once every two years)
5. Compliance with federal and state statutes and regulations (notably Title 5 of the California Code of Regulations)

PCCD [Board Policy 4020](#) and [Administrative Procedure 4020](#) require that curricula be evaluated regularly through program review and annual program updates on a three-year cycle. For Career Education programs, however, this policy is superseded by [California Education Code § 78016\(a\)](#), which requires reviews every two years.

This section of the APU requests information about the status of course and program updates, improvement plans based on curriculum review, and prospective curriculum development. The Curriculum Committee shall evaluate the responses as part of the validation of APU completion and the prioritization of resource requests.

Curriculum Review

Consult [CurriQunet](#) and the [Course Curriculum Review Status](#) or [Program Curriculum Review Status](#) spreadsheets to determine when a course or program was last updated or deactivated.

Courses that have not been offered in the past three years should be deactivated to ensure that the college catalog presents a current and accurate inventory of actual course offerings at Merritt. Likewise, if certificates and degrees have not been awarded in recent years, or the required courses have not been offered regularly enough for students to complete, consider the relevance and viability of those programs for potential deactivation.

Modifications

Indicate courses reviewed/updated in the past academic year (2019-2020), following the example in red. Add additional rows as needed in the table below.

Subject	Course #	Course Title	Top Code	Top Code Description
PHYS	002A	General Physics	1902.00	Physics, General
PHYS	002B	General Physics	1902.00	Physics, General
PHYS	004A	General Physics with Calculus	1902.00	Physics, General
PHYS	004B	General Physics with Calculus	1902.00	Physics, General
PHYS	004C	General Physics with Calculus	1902.00	Physics, General
PHYS	010	Introduction to Physics	1902.00	Physics, General
PHYS	049	Independent Study in Physics	1902.00	Physics, General

Indicate programs reviewed/updated in the past academic year (2019-2020), following the example in red. Add additional rows as needed in the table below.

n/a

Deactivations

Indicate courses deactivated in the past academic year (2019-2020), following the example in red. Add additional rows as needed in the table below.

Course Number	Course Title	Reviewer
ADJUS 21	Introduction to Administration of Justice	Elaine Wallace

Indicate programs deactivated in the past academic year (2019-2020), following the example in red. Add additional rows as needed in the table below.

Program Title	Program Type	Reviewer
Administration of Justice: Police Science	AA Degree	Elaine Wallace

Curriculum Improvement

Based on ongoing curriculum review, describe plans for **program-level** improvement in terms of any of the following considerations:

- Advancing **student equity and achievement** for disproportionately impacted students.
- Fostering **intersegmental alignment** and **guided pathways** through articulation, course sequencing, and program mapping.
- Implementing innovative **pedagogies, delivery methods/modalities, or educational resources and technologies.**

the PHYS 010L lab course, associated with the PHYS 010 lecture course, has been approved by the Merritt College Curriculum Committee (MCCC) and is currently in the inter-college consultation phase preceding approval by CIPD. All active ASTR and PHYS courses (ASTR 001 and 010, PHYS 002A, 002B, 004A, 004B, 004C, and 010) have undergone the MCCC-approved curriculum review process in the past three years, and all other ASTR and PHYS courses have been deactivated. All the active ASTR and PHYS courses save PHYS 004C have had emergency temporary DE addenda approved for them in either the Spring or Fall semester of 2020.

Curriculum Development

Indicate new courses to be proposed and/or historical courses to be reactivated within the next academic year (2021-2022), following the example in red. Add additional rows as needed in the table below.

Title	Description	Justification	Anticipated Effective Term
Beginning Spelunking	Introductory activity class on basic practices, equipment, and safety considerations in the exploration of caves	[Assessment data, student demand or need, academic/occupational knowledge or skills not taught in existing curricula, program requirements, community or industry partnerships, grant funding, etc.]	Fall 2022

Indicate new programs slated for development within the next academic year (2021-2022), following the example in red. Add additional rows as needed in the table below.

Title	Description	Justification	Anticipated Effective Term
Outdoor Recreational Activities Not for the Faint of Heart	Certificate of achievement to train daredevil students seeking a lifetime of adrenaline rushes in the great outdoors. Courses include bungee jumping, rock climbing, sky diving, spelunking, and ziplining.	[Basic skills, occupational, or transfer pathways; advisory board recommendations or LMI data; community or industry partnerships; grant funding, etc.]	Fall 2022

The Curriculum Committee shall prioritize the review and approval of new courses and programs that are identified in this section of the APU.

VII. Funded Resources

For each resource allocation request from previous year's APU, indicate whether it was funded. Describe the outcomes and accomplishments for any requests which were funded.

Brief description of resource request	Was request funded? (Yes or No)	Funding Source (Specify Fund or Grant)	Total Award Amount	Outcome/Accomplishment

VIII. Resource Requests

In the tables below, please add resource requests for your program for the **2021-22 fiscal year**. Indicate if the request is being made as part of the response to the COVID-19 pandemic. If you are submitting multiple requests under the same category, prioritize them by assigning a rank to each request ('1' indicating the highest priority request). Include only one request per row; if additional rows are needed, insert new rows in the table ([how to add rows](#)).

Personnel Resource Requests

Personnel Sub-Category (Full-Time or Part-Time Faculty, Classified, Student Worker)	Description/Justification	Percent Time	Estimated Annual Salary Costs	Estimated Annual Benefits Costs	Total Estimated Cost	Priority Rank (1=Highest priority)	COVID-19 Related (Yes/No)
Classified	the biggest need would be hiring a lab technician for physics, especially once PHYS 010L is approved and able to be offered. Given the precautions needed for COVID safety, I would imagine that we can justify a 20 hour per week position with benefits to be paid. I believe we estimated the cost of such a position to be \$40,000.	0.50	\$35,000	\$5,000	\$40,000	1	No

Personnel Sub-Category (Full-Time or Part-Time Faculty, Classified, Student Worker)	Description/Justification	Percent Time	Estimated Annual Salary Costs	Estimated Annual Benefits Costs	Total Estimated Cost	Priority Rank (1=Highest priority)	COVID- 19 Related (Yes/No)

Resource Requests (Non-Personnel)

Resource Categories

- Professional Development (Department wide)
- Professional Development (Personal/Individual)
- Required Reasonable Accommodation
- Service Contract
- Supplies: Software
- Supplies: Books, Magazines, and/or Periodicals
- Supplies: Instructional Supplies
- Supplies: Non-Instructional Supplies
- Supplies: Library Collections
- Technology & Equipment: New
- Technology & Equipment: Replacement
- Other

Resource Category (select from above list)	Description/Justification	Total Estimated Cost	Priority Rank (1=Highest Priority)	COVID-19 Related (Yes/No)
Supplies: Instructional Supplies	60 100-count boxes of nitrile gloves @ \$30 per box = \$1800 60 50-count boxes of disposable masks @ \$10 per box = \$600 20 6-count boxes of reusable face shields @ \$25 per box = \$500 UV sonicator = \$200 4 gallons of 70% isopropyl alcohol @ \$200 per gallon = \$800 3 1000-count buckets of 70% isopropyl alcohol wipes @ \$100 per bucket = \$300	\$4200	1	YES
Technology & Equipment: New	Office and instructional equipment for instructors to equip home instructional offices for distance teaching. For example: <ul style="list-style-type: none"> • Wireless/wired Headphones (\$50 – 90 each) • Document Camera (\$69 each) • Standing desk converter (\$150 -250 each) • Wireless Keyboard and Mouse (\$30 – 50 each) • Adjustable height desk (\$250 – 400 each) 	\$1500	1	YES

Resource Category (select from above list)	Description/Justification	Total Estimated Cost	Priority Rank (1=Highest Priority)	COVID-19 Related (Yes/No)
	Blue light blocking glasses (\$15 – 20 each)			
Other	Stipends of \$250 for all Fall 2020 faculty members, in recognition of extra preparation time and anticipated resource needs associated with emergency online teaching.	\$750	1	Yes
Supplies: Instructional Supplies	Printer paper Toner cartridges	\$1000		

IX. Participants

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

Dan Lawson, Tom Renbarger

Thank you for your time and effort in completing the Annual Program Update!