LMC Program Review Year 3 Update 2019-2020
Instructional Unit Name: COMPUTER SCIENCE

Introduction

In 2017-2018, all departments/programs completed a Comprehensive Program Review (CPR), in which goals were set for the 2017-2022 program years. Los Medanos College (College) is now in year three of a five-year review cycle. New to this program review cycle is the passage of the State's *Vision for Success* plan which establishes system-wide goals that can only be attained by each department contributing to college-level goals aligned with the state plan. Toward that end, the *Contra Costa Community College District Strategic Plan* (*CCCD Strategic Plan*) adopted by the Governing Board at its June 2019, meeting, aligns with the *Vision for Success* and plans are underway to ensure that the *Los Medanos College Educational Master Plan (LMC EMP)* also supports college and state goals. The intent is to direct College efforts toward a singular and coordinated set of goals.

The *Vision for Success* directs each college to increase degree and certificate completion and increase student transfers, improve time to completion, increase job placement in field of study, narrow achievement gaps and establishes targeted goals in five primary areas as follows:

Goal #1 Increase by 20 percent the number of CCC students annually who acquire associates degrees, credentials, certificates, or specific skill sets that prepare them for an in-demand job.

Goal #2 Increase by 35 percent the number of CCC students' system-wide transferring annually to a UC or CSU.

GOAL #3 Decrease the average number of units accumulated by CCC students earning associate's degrees, from approximately 87 total units (the most recent system-wide average) to 79 total units—the average among the quintile of colleges showing the strongest performance on this measure

GOAL #4 Increase the percent of exiting CTE students who report being employed in their field of study, from the most recent statewide average of 69 percent to an improved rate of 76 percent—the average among the quintile of colleges showing the strongest performance on this measure in the most recent administration of the CTE Outcomes Survey.

Goal #5 Reduce equity gaps across all of the above measure through faster improvements among traditionally underrepresented groups as identified by the college.

The College can only meet its local and state goals with the contribution of each department's efforts. As noted, the intent is to direct College efforts towards a singular and coordinated set of goals to garner greater efficiencies and avoid duplication of effort.

The *Program Review Year 3* Update includes five components with specified timeframes (not in chronological order) for draft and completion:

Item 1. Program Update (October 1 – October 31)
Provide an update to the department's 2017-18 CPR

Item 2. Setting the Vision for Success Goals 2021-22 (November 1 – November 27)
Department/program alignment of goals, action steps, timeline, responsible party and next steps – all tied to the *Vision for Success* indicators. For ease of reference, the *Vision for Success* indicators are included in this section.

Item 3. Assessment Date and Effectiveness (August 26 – September 30)
Status report on the review and assessment of courses and next steps

Item 4. Course Outline Updates (August 26 – September 30)
Status report on the review and assessment of Course Outline of Records and next steps

Item 5. Resource Needs (February 1 – February 28)
Resource needs to meet goals, if any.

The table below shows a list of the above components in chronological order. The intent is to complete sections of Program Review by these dates to better assess and inform the process.

Date	Program Review Update Component
August 26 – September 30	**Item 3.** Assessment Date and Effectiveness Status report on the review and assessment of courses and next steps.
August 26 – September 30	**Item 4.** Status report on the review and assessment of Course Outline of Records and next steps.
October 1 – October 31	**Item 1.** Provide an update to the department's 2017-18 CPR
November 1 – November 27	**Item 2.** Department/program alignment of goals, action steps, timeline, responsible party and next steps – aligned with the *Vision for Success* indicators.
February 1 – February 8	**Item 5.** Resource Needs

1. Program Update (Oct 1 – Oct 31)

1a. Provide any important changes or updates within your program since your last CPR. (New degrees, new curriculum, staffing changes, etc.)

We revamped our Network and Security AA and CA programs to align with the states Model Curriculum and prepare for possible CAE2Y Cybersecurity approval. We also modified the AS-T Computer Science degree per the state's allowed changes that resulted in the 5 year review. Clayton Smith has been on a pre-retirement 50% teaching load.

1b. Please address the following enrollment data provided for your program.

1.b.1. What are the enrollment trends over the past 3 years, beginning with Fall 2017? (Please address census enrollment, census fill rate, and productivity (Ftes/Ftef)

Our enrollment has remained steady with a slight increase (3%), fill rate has also remained steady with a slight increase (0.3%), productivity has increased from 18.0 to 18.6 (3%)

1.b.2. What does the data suggest in terms of future needs/directions?

No need for any changes. Steady as she goes.

1c. Provide a brief update of your program's goals as listed in your **(CPR)** 2017- 2018. Given these goals, please provide a brief update on: (a) Goals completed since their submission in 2018, and the impact of that completion on program effectiveness; (b) Goals abandoned with an explanation of why they were abandoned and (c) Goals still in progress or modified to be achieved by 2021-2022.   Please include action steps, timeline, and responsible parties.

Goals	Completed/ Abandoned/ In Progress/ Modified	Impact/ Explain/ Action Steps	Timeline/ Responsible Parties
Goal 1: **Research and develop a Cybersecurity program.**	Completed.		
Goal 2: **Continue with ITTP Pathways development**	In progress.	Phase 1 is completed. Phase 2, 3 and 4 need more course development.	On hold until full-time IT instructor is hired.
Goal 3: **Develop course for high demand pathways**	Abandoned.	No one can remember what this is referring to.	

For CTE programs only:

1c.   Community and Labor Market Needs (Link Ed Code 78016, Title 5, 51022)

As far as can tell the LMI data that was supplied was for management positions that are not applicable to us.

1d.   Advisory Board Update and Analysis (CTE related only) Include dates of Advisory Board meetings in 2018-2019, and those completed or planned in 2019-2020.

No meetings were held in 2018-2019.

A meeting was held on December 4, 2019. We discussed the overlap of our Computer Support Specialist and Computer Applications Specialist CA's. We concluded that we should transfer two courses from our Computer Application Specialist certificate to our Computer Support Specialist certificate. We also determined that programming is nice to have but not required for the remaining certificate.

2. Setting Vision for Success Goals for 2021-22 (Nov 1—Nov 27)

The *Vision for Success* directs each college to increase degree and certificate completion and increase student transfers, improve time to completion, increase job placement in field of study, narrow achievement gaps and establishes targeted goals in five primary areas. The College can only meet its local and state goals with the contribution of each department's efforts. As noted, the intent is to direct College efforts towards a singular and coordinated set of goals to garner greater efficiencies and avoid duplication of effort.

2a. The following table lists the *Vision for Success* indicators that we must align to as a college and as a district. Please look at your program data (Tableau) for each of the following *Vision for Success* indicators. Please address all indicators that are relevant to your program, set your program goal, indicate the action steps, timeline and responsible parties to achieve program goals.

Vision for Success Indicators and ACCJC Indicator	Program Set Goals for 2021-2022	Action Steps	Timeline	Responsible Parties	Notes
Course Success	64%	None		Louie Giambattista	Current rate is quite high. National average is approx. 50%.
Degrees (AA, AS, ADT)	Computer Science (AST) - 4	None		Louie Giambattista	On pace with college goals
	Support Specialist (AS) - 8	None		Louie Giambattista	On pace with college goals
Certificates of Achievement	Support Specialist (CA) - 4	None		Louie Giambattista	On pace with college goals
	Application Specialist (CA)	This program will be merged into the Support Specialist programs			
Unit Reduction					
CTE Jobs					

2b. The Vision for Success Goal 5—Equity. The College has identified three disproportionately impacted (DI) populations: African-American, economically disadvantage students (low income), and foster youth students. The College's goal is to reduce the equity achievement gap on course success for

disproportionately impacted (DI) student populations. Please look at your program data (Tableau) for each of the following DI population. Please pick one or more DI populations that are relevant to your program, set your program goal, indicate the action steps, timeline and responsible parties to achieve program goals.

Course Success by DI Population	Program Set Goals for 2021-2022	Action Steps	Timeline	Responsible Parties	Notes
African American		52 vs 64			
Low Income		62.9 vs 64.8			
Foster Youth		58.6 vs 64.2			

3. Assessment Update and Effectiveness (August 26-Sept 30)

a. Please review the data provided on assessment status of courses in your discipline in Cycle 2 (2017/18-2020/21), if there were any courses that were not assessed in Cohorts 1 and 2, please (a) list them, (b) explain why they were not assessed, (b) when are you going to assess them, and (c) who is going to assess them.

Course	Reason course was not assessed	When course will be assessed	Faculty Responsible for Course Assessment
COMSC 30	Only part timers teach the course.	Fall 2020	Joenil Mistal
COMSC 31	Only part timers teach the course.	Fall 2020	Joenil Mistal
COMSC 32	Only part timers teach the course.	Spring 2020	Joenil Mistal
COMSC 37	Only part timers teach the course.	Fall 2020	Sandy Jones
COMSC 44	Only part timers teach the course.	Spring 2020	Louie Giambattista
COMSC 91	Course has not been offered in a while. Instructor was out on leave last semester.	Spring 2020	James Lipscomb
COMSC 111	Course is once every two years.	Fall 2020	Karen Stanton

b. Discuss the results of any outcomes assessments (e.g. CSLO) performed this year. What changes, if any, are planned to improve student success?

4. Course Outline of Record Updates (August 26 – Sept 30)

Please review the data provided on the status of COORs in your discipline. (Note: These data do not reflect courses submitted after May 2019. For each COOR that has *not* been updated since May 2019, please indicate the faculty member responsible for submitting the updated COOR to the Curriculum Committee by **November 1, 2019**.

Course	Faculty Responsible for COOR Update
COMSC 10	Clayton Smith
COMSC 11	Dan Young
COMSC 12	Clayton Smith
COMSC 30	Joenil Mistal
COMSC 31	Joenil Mistal
COMSC 32	Joenil Mistal
COMSC 37	Sandy Jones

COMSC 41	Warren Littlefield
COMSC 44	Louie Giambattista
COMSC 51	Joenil Mistal
COMSC 60	Karen Stanton
COMSC 92	James Lipscomb
COMSC 110	Karen Stanton
COMSC 111	Karen Stanton
COMSC 112	Karen Stanton
COMSC 120	Sandy Jones
COMSC 122	Louie Giambattista
COMSC 132	Louie Giambattista
COMSC 142	Louie Giambattista

Impact of Resource Allocation

If you have received funding via the Resource Allocation Process, you will be asked by the Office of Business Services how the resource helped you in achieving your program goals.

5. Resource Needs (Feb 1 – Feb 28)

Resource needs to meet goals, if any. If there are no requests, this section may be skipped.

Faculty/Staff Resource Request			
Department/Unit Goal - Reference #		**Strategic Goal and/or Objective - Reference #**	
Department/Unit Name		**Position Name/Classification**	**FTE**
Position Type	**Funding Duration**	**Funding Source**	**Est. Salary & Benefits**
☐ Faculty R/T ☐ Classified ☐ Manager ☐ Student	☐ On-going/Permanent ☐ One-time	☐ Operations (Fund 11) ☐ Other [____]	
Justification:			

Operating Resource Request	
Department/Unit Goal - Reference #	**Strategic Goal and/or Objective - Reference #**
Department/Unit Name	**Resource Type**
	☐ Equipment ☐ IT Hardware/Software ☐ Supplies ☐ Facility Improvement ☐ Service/Contract ☐ Other
General Description	**Est. Expense**
Justification:	

Professional Development Resource Request

Department/Unit Goal - Reference #	Strategic Goal and/or Objective - Reference #

Department/Unit Name	Resource Type
	☐ Conference/Meeting ☐ Materials/Supplies ☐ Online Learning ☐ IT Hardware/Software ☐ Other

General Description	Est. Expense

Justification: