

Instructional Units Program Review Year Five Update - Fire Technology

Latest Version

This cycle is for Instructional Units to complete the Year Five Update of the Program Review Cycle.

Instructional Units Program Review Year Five Update

1. Program Update : Version by Grillo, Mike on 02/08/2022 21:51

1a. Provide any important changes or updates within your program since your Program Review Year Three Update (2019-20). (New degrees, new curriculum, staffing changes, etc.)

Since the last program review in 2017/2018, no new degrees or certificates have been created for the Fire technology dept. No new curriculum changes have been made since the last program review.

We are preparing two new courses 1, Fire Apparatus and Equipment (intended to give the students a more accurate conception of the tools and equipment used by firefighters.

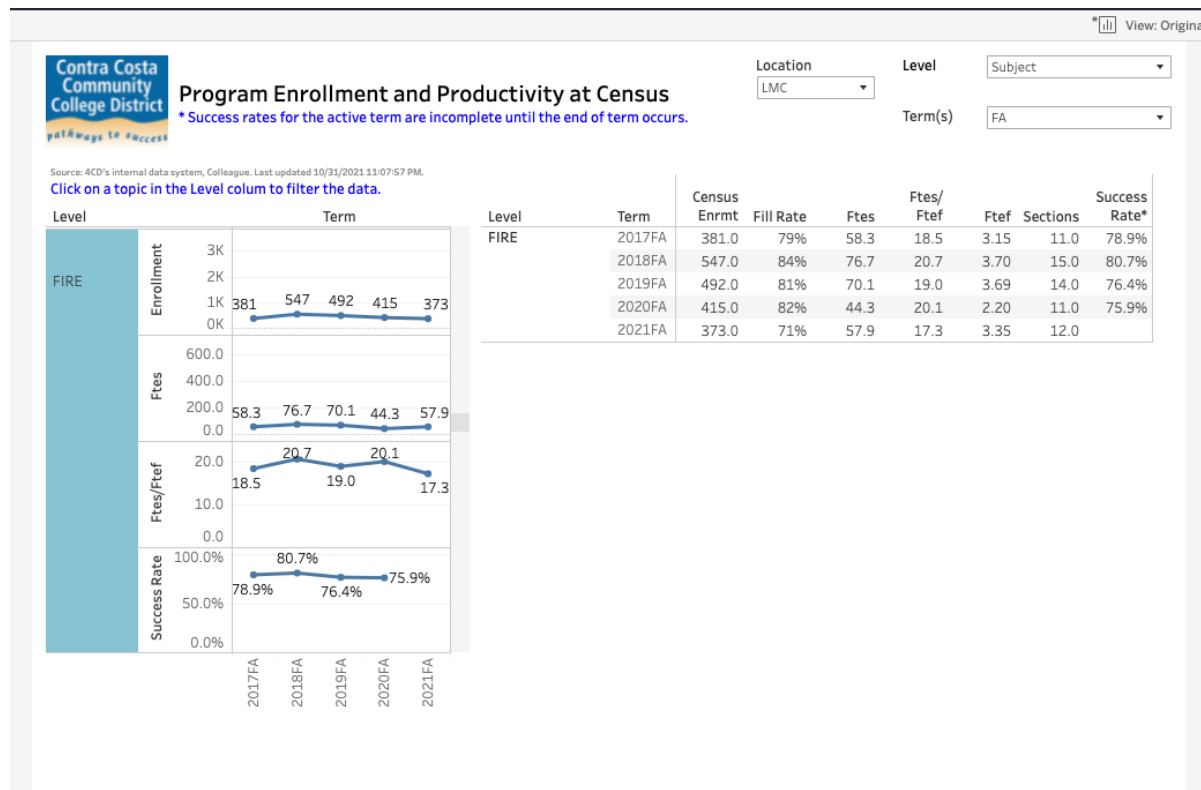
2. Strategy and Tactics (intended to provide a better understanding of everyday fire ground plans and actions

Although both Course Outline of Record (COOR) have been prepared, neither of these courses has been submitted or approved by the LMC curriculum Committee, We envision submitting these COORs to curriculum committee in SPRING 2022, We envision that The Strategy and Tactics course will be highly sought by currently employed firefighters seeking promotions to officer levels.

One staffing change was made, hiring David Finn to instruct the current Fire 106 class.

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 2018? (Please address census enrollment, census fill rate, and productivity (FTES/FTEF)



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

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

Enrollment trends over the last several years indicate that the fire technology program was on an uphill climb prior to the COVID pandemic. Census reveals a tremendous growth from 2017-2018 and then in 2019 a leveling off, however once the COVID pandemic restrictions were in place, the fire technology program enrollment diminished. The census enrollment data still

indicates a 70% or higher fill rate consistent over the last 3-5 years.

1c. Provide a brief update on the timeline for your program's goals as listed in your Program Review Year Three Update (2019-2020). If your program's goals are in progress or modified, please include action steps and responsible parties in your explanation.

Goals	Completed/ Abandoned/ In Progress/ Modified	Impact/ Explain/ Action Steps	Timeline/ Responsible Parties
Goal 1: Increase the number of students achieving Degrees and or Certificates of Achievement in Fire Technology	IN PROGRESS	THE FIRE TECHNOLOGY DEPT CONTINUES TO IMPROVE AND RAISE THE NUMBER OF DEGREES AND CERTIFICATES ISSUED THRU CONSTANT ADVISING OF STUDENTS OF WHAT THEY WILL NEED NOT ONLY TO BE HIRED BUT TO BE SUCCESSFUL IN THE FIRE SERVICE.	FIRE STAFF
Goal 2: Increase number of hybrid and/or content captured courses	IN PROGRESS	WE CURRENTLY ONLY OFFER 1 HYBRID COURSE FIRE 107 BUT DUE TO COVID ALL OF OUR FIRE CLASSES HAVE THE POTENTIAL TO BE DELIVERED AS HYBRID. A DETERMINATION WILL BE MADE APPLICABLE TO FUTURE HYBRID COURSE SPRING 2022 FOR FALL 2022 DELIVERY.	MIKE GRILLO
Goal 3: Build and rebuild community outreach in the form of better communications between advisory board partners		ALTHOUGH THE FIRE TECH DEPT CONDUCTS ONLY 1 ADVISORY BOARD MEETING ANNUALLY, WE ARE IN CONSTANT DISCUSSIONS WITH MANY OF OUR ADVISORY BOARD CONSTITUENTS. THESE CONSTITUENTS ARE MADE UP OF CONTRA COSTA COUNTY FIRE TRAINING OFFICERS .	FIRE STAFF

FOR CTE PROGRAMS ONLY

1c. Community and Labor Market Needs (Link Ed Code 78016 (http://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=EDC§ionNum=78016), Title 5, 51022 ([https://govt.westlaw.com/calregs/Document/I69DDBCC0B6CB11DFB199EEE3FF08959C?viewType=FullText&listSource=Search&originationContext=Search+Result&transitionType=SearchItem&contextData=\(sc.Search\)&navigationPath=Search%2fv1%2fresults%2fnavigation%2f0ad7140b0000016c911a16d7b7f969b%3fNav%3dREGULATION_PUBLICVIEW%26fragmentIdentifier%3dI69DDBCC0B6CB11DFB199EEE3FF08959C%26startInde](https://govt.westlaw.com/calregs/Document/I69DDBCC0B6CB11DFB199EEE3FF08959C?viewType=FullText&listSource=Search&originationContext=Search+Result&transitionType=SearchItem&contextData=(sc.Search)&navigationPath=Search%2fv1%2fresults%2fnavigation%2f0ad7140b0000016c911a16d7b7f969b%3fNav%3dREGULATION_PUBLICVIEW%26fragmentIdentifier%3dI69DDBCC0B6CB11DFB199EEE3FF08959C%26startInde)))

SOC	Description	2022 Jobs	2027 Jobs	2022-2027 % Change	Ave. Annual Openings	Hourly Earnings	Median Hourly Earnings	Typical Entry-Level Education	Regional Completions (2020)
33-2021	Fire Inspectors and Investigators	73	76	4%	8	\$38.77	\$54.70	Postsecondary nondegree award	807
33-2011	Firefighters	3,130	3,211	3%	250	\$36.01	\$51.26	Postsecondary nondegree award	407
19-4071	Forest and Conservation Technicians	1,508	1,517	1%	186	\$14.17	\$28.06	Associate's degree	27

As a result, of the COVID pandemic many fire departments were unable to hire and train new firefighters. As a result of this slow hire large vacancies appearing in the fire service. There is now and in the immediate future a huge demand to hire and train new firefighters

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1d. Advisory Board Update and Analysis (CTE related only) Include dates of Advisory Board meetings in 2020-2021, and those completed or planned in 2021-2022.

Date of the last Advisory Board meeting is December 2019. This meeting took place at the Contra Costa County Fire training center. The minutes from this meeting were prepared and sent into the office of Instruction. No Advisory Board meetings were conducted in 2022nor 2021 due, to COVID pandemic restrictions and safety. Our next Advisory Board meetings is scheduled for February 2022.

The purpose of an Advisory Board is to receive recommendations from current neighboring Fire and Emergency Medical Services Agencies. These recommendations may come in the form of:

1. Modifications to current fire classes in order to update/improve our delivery of fire technology courses
2. Make students aware of new and innovative fire equipment
3. Current hiring processes

Our fire advisory Board is considered to be our Industry partner and Los Medanos College Fire Technology dept.as well as our Fire academy program. It is therefore important that we stay connected to their ideas, concerns and improvement methodologies to our Fire program.

Goals and Objectives	Modified	In Progress	Abandoned	Completed
Goal 1. Strengthen a culture of equity, diversity, inclusion, and racial justice. (District #2 and #4)				
Goal 2. Increase and maximize equitable opportunities for students to successfully complete courses and programs. (District #1 and #2)				
Goal 3. Increase opportunities that will prepare students to enter high-demand and living-wage occupational fields. (District #3)				
Goal 4. To better support students in accomplishing their academic and career goals – from entry to completion/transition – and to enhance course-level and program-level achievement, expand and deepen educational, workforce, and community partnerships. (District #3)				
Goal 5: Effectively utilize institutional resources to meet the needs critical to the College mission. (District #4 and #5)				

2. Vision for Success Goals Update : Version by Franco, Dennis on 02/08/2022 19:02

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 and provide a status update on your program goals from your Program Review Year Three Update. Please include action steps if your goal(s) has been modified and an explanation if your goal(s) has been abandoned. *

**NOTE - Please copy and paste the table below in your response and complete accordingly.*

Vision for Success Indicators and ACCJC Indicator	Program Set Goals (from PR Year 3 Update)	Status (Indicate Modified, Completed, or Abandoned)	Timeline	Responsible Parties	Action Steps/ Explanation
Course Success					
Degrees (AA, AS, ADT)					
Certificates of Achievement					
Unit Reduction					
CTE Jobs					

Vision for Success Indicators and ACCJC Indicator	Program Set Goals (from PR Year 3 Update)	Status (Indicate Modified, Completed, or Abandoned)	Timeline	Responsible Parties	Action Steps/ Explanation
Course Success	83.9	76.4	In progress	Mike Grillo	Increase awareness
Degrees (AA, AS, ADT)	27 in 2016/17-----43 in 2020/21	32		Fire Staff	Maintenace
Certificates of Achievement	10 in 2016/17-----20 in 2020/21	12		Fire Staff	Maintenance
Unit Reduction	79 is the goal-----79 achieved in 2020/21				
CTE Jobs	Data shows a steady increase in degrees and certificates with the exception of the COVID Pandemic years			Fire Staff	

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

Please review your program data (Tableau) for each of the aforementioned DI populations, and provide a status update on your program goal(s) for your previously selected DI population(s) in your Program Review Year Three Update. If your goal(s) has been modified please include action steps and if your goal(s) has been abandoned please provide an explanation.*

**NOTE - Please copy and paste the table below in your response and complete accordingly.*

Course Success by DI Population	Program Set Goals (PR Year 3 Update)	Status (Indicate Modified, Completed or Abandoned)	Timeline	Responsible Parties	Action Steps/ Explanation
African American					
Low Income					
Foster Youth					

Course Success by DI Population	Program Set Goals (PR Year 3 Update)	Status (Indicate Modified, Completed or Abandoned)	Timeline	Responsible Parties	Action Steps/ Explanation
African American	78%	Currently at 63%. WE will make every effort to increase the percentage of African American and other disadvantaged students pursuing careers in the fire service thru awareness.	1 calendar year	Mike Grillo	I wish to get retired Richmond Fire Chief Joe Robinson who is currently on LMC Fire Staff to get involved with campus staff to put together some short videos on black careers in the fire service. Perhaps even a couple of weekend drop in oral presentations at LMC on fire service benefits.
Low Income	77.1%	80% increased awareness and advertising - completed	2 calendar years	Fire Staff	have LMC Fire Staff get involved with campus staff to put together some short videos complimentary to low-income perspective fire students
Foster Youth	69	78% increased awareness and advertising - completed	2 calendar years	Fire Staff	LMC Fire Staff to get involved with campus staff to put together some short videos suitable for foster youth

3. Assessment Status Update and CSLO Assessment Effectiveness : Version by Franco, Dennis on 02/08/2022 19:02

a. Please review the data provided on the assessment status of courses in your discipline for Cycle Two (2017/18-2020/21). For any courses that were not assessed in Cycle Two please list them in the table below in your response including why they were not assessed, when you are going to assess them, and who is going to assess them.*

**NOTE - Please copy and paste the table below in your response and complete accordingly (add extra rows if needed).*

Course Name/ Number	Reason course was not assessed	When course will be assessed	Faculty Responsible for Course Assessment
Course Name/ Number	Reason course was not assessed	When course will be assessed	Faculty Responsible for Course Assessment
FIRE 130	No Excuses other Than COVID Restrictions	Spring Semester 2022	Mike Grillo Paul Cutino

b. Discuss the results of any CSLO assessments performed this year. What changes, if any, are planned to improve student success (ex. pedagogy, assessment instruments are not appropriate to measure, CSLO rewritten etc.)?

CSLO for Fire 106 needs to be altered, resubmitted for approval. The current COOR has an incomplete list of DISCIPLINES from which an instructor may prequalified and selected. The new COOR will include Instructors from the KINESIOLOGY Dept as qualified applicants to teach this course. This change will occur on COOR 106 and be submitted to the Curriculum committee for their February 2022 meeting.

In all of our Fire technology classes, we have discussed and plan to implement more group activities such as small unit group projects. This technique should prove to be helpful and is consistent with career problem solving techniques used in the Fire service today, The Los Médanos College Fire staff wish to connect and inspire our Fire students to get involved in classroom discussions and direct any and all questions to their instructors.

4. Course Outline of Record Updates : Version by Franco, Dennis on 02/07/2022 19:27

Please review the data provided in eLumen for the status of the Course Outline of Records (COORs) in your discipline. Please indicate in the table below any COOR(s) for your discipline that has not been updated and identify the faculty member responsible for submitting the updated COORs to the Curriculum Committee by November 1, 2021.*

**NOTE - Copy and paste the table below in your response and complete accordingly (add extra rows if necessary).*

Course (Enter Course Name ex. ENGL-100)	Faculty Responsible for COOR Update
Course (Enter Course Name ex. ENGL-100)	Faculty Responsible for COOR Update
Fire 106	Mike Grillo
Fire 130	Mike Grillo / Kevin Rose

Impact of Resource Allocation