

Instructional Units Program Review Year Five Update - Electrical/Instrumentation Technology Department 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

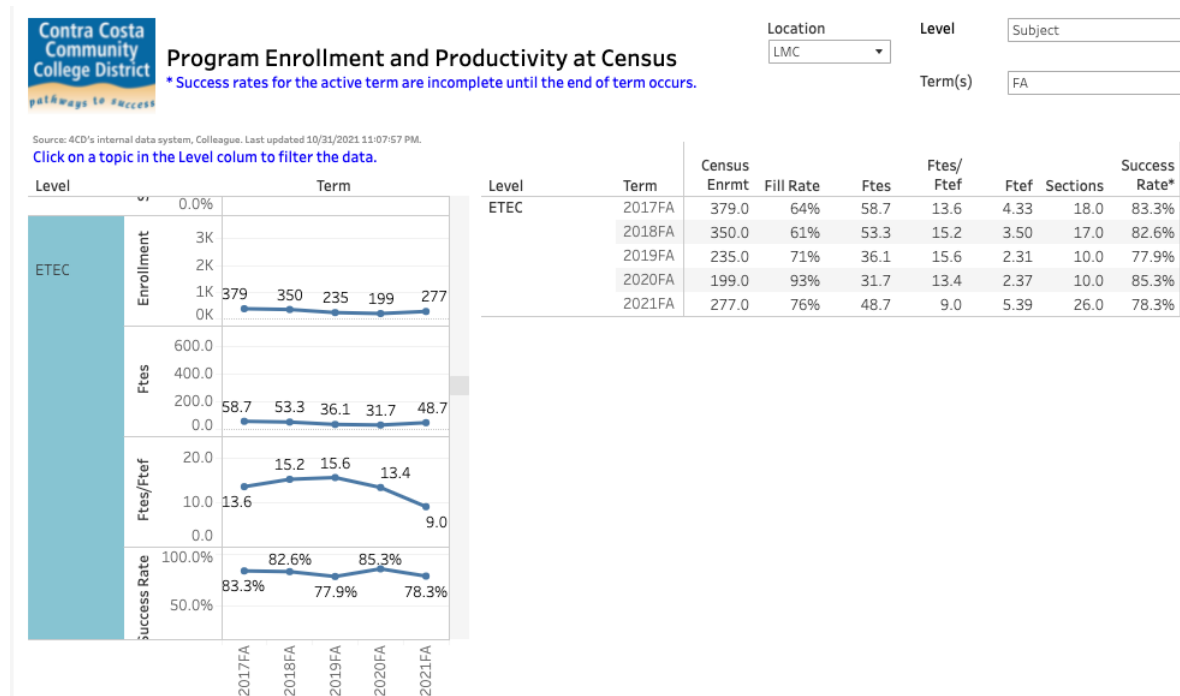
1. Program Update : Version by Pedersen, Russell on 02/12/2022 11:50

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.)

- Established internship with Bayworks/JVC
- Multi Year Schedule Plan implemented
- Optimized Student learning with Smaller lab sections
- Hired 1 new part-time instructor
- Re-established industrial relations with UPI, PGE, EBMUD, others

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?

Current conditions:

- Due to the loss of a full-time faculty member course offering have been signfy reduced resulting in students being turned away.
- Another factor reducing enrollment is the Covid-19 pandemic. While we were able to move lecture classes online the in-person lab portion was significantly impacted due to physical lab combined with limited equipment availability.
- A single laboratory instructional space is utilized for multiple disciplines of instruction. This limits the entire laboratory instructional space to a single classroom.

Future needs/direction:

- Hire a new full-time instructor to replace the vacant position. Increase course offerings to accommodate a larger number of students per semester.
- Add additional laboratory space to allow different laboratory courses to be offered during the same timeframe. This will increase course, instructor, and student utilization of the college facilities.

- Increase the available lab stations to maintain equity amongst students

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: Decrease congestion in the laboratory by expanding the laboratory facility.	In-Progress	<ul style="list-style-type: none"> • Increase enrollment and create a more equitable educational space. Increase safety for instructors and students during lab experiments. 	Russell Pedersen Dennis Franco
Goal 2: Increase public awareness of this program, concentrating on the African American and female population.	In-Progress	<ul style="list-style-type: none"> • Invite currently employed alumni both African-American and female as guest speakers. • Host open house concentrating on local communities addressing equitable education availability. • Host informational sessions with public outreach programs and local high school communities. 	Russell Pedersen Dennis Franco
Goal 3: Additional staffed laboratory hours to assist high risk student during non-instructional time.	In-Progress	<ul style="list-style-type: none"> • Hire additional instructors. • Add a drop in laboratory to assist all students concentrating on equity and high-risk students. 	Russell Pedersen Dennis Franco

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%2f0ad7140b000016c911a16d7fb7f969b%3fNav%3dREGULATION_PUBLICVIEW%26fragmentIdentifier%3dl69DDBCC0B6CB11DFB199EEE3FF08959C%26startInDe

SOC Description	2022 Jobs	2027 Jobs	2022 - 2027 % Change	Avg. Annual Openings	Pct. 10 Hourly Earnings	Median Hourly Earnings	Typical Entry Level Education	Regional Completions (2020)
47-2111 Electricians	10,167	11,250	11%	1,303	\$26.22	\$47.01	High school diploma or equivalent	53
49-2094 Electrical and Electronics Repairers, Commercial and Industrial Equipment	432	448	4%	37	\$19.73	\$45.32	Postsecondary nondegree award	199
17-3023 Electrical and Electronic Engineering Technologists and Technicians	2,685	2,751	2%	264	\$20.33	\$33.59	Associate's degree	47
	13,284	14,449	9%	1,604				

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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.

November 9, 2021

industry partners attending this Meeting Were: Corteva, NAES energy, Marathon, Dow chemical, and the regional director of advanced manufacturing workforce development.

Discussions were as follows:

- Covid-19 related industry changes and updates
- Changes made reducing the number of students per lab session increasing the hands on experience of each student.
- Rebooting the guest speaker program concentrating on alumni of the African-American and female community.
- Industrial facility towards for faculty and student as Covid-19 permits.
- Internship programs between Los Medanos College and local industry.
- Structuring academic plans to better suit student educational outcomes and to better prepare them for the industrial employment market.
- Current ETEC graduate student abilities.
- Needed changes and upgrades to better serve new developing technology to keep the ETEC program as a viable entrance into the current industrial careers.

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 02/14/2022 20:37

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	85.9%	84.8% - in-progress	ongoing	Russell Pedersen Dennis Franco	<ul style="list-style-type: none"> invite Los Medanos counselors to attend the entry portal courses to the ETEC program. Incentivize creating an educational plan with a Los Medanos College counselor. Invite alumni focusing on African-American graduates currently gainfully employed in the local industrial community.
Degrees (AA, AS, ADT)	23	17 - in-progress	ongoing	Russell Pedersen Dennis Franco	<ul style="list-style-type: none"> Invite Los Medanos counselors to attend the entry portal courses to the ETEC program. Incentivize creating an educational plan with a Los Medanos College counselor. Invite alumni focusing on African-American graduates currently gainfully employed in the local industrial community.
Certificates of Achievement	30	14 - in-progress	ongoing	Russell Pedersen Dennis Franco	<ul style="list-style-type: none"> Invite Los Medanos counselors to attend the entry portal courses to the ETEC program. Incentivize creating an educational plan with a Los Medanos College counselor. Invite alumni focusing on African-American graduates currently gainfully employed in the local industrial community.
Unit Reduction	79	104 - in-progress	ongoing	Russell Pedersen Dennis Franco	<ul style="list-style-type: none"> Invite Los Medanos counselors to attend the entry portal courses to the ETEC program. Incentivize creating an educational plan with a Los Medanos College counselor. Invite alumni focusing on African-American graduates currently gainfully employed in the local industrial community.
CTE Jobs					

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	84.3%	88.9% - completed	ongoing	Russell Pedersen Dennis Franco	<ul style="list-style-type: none"> Invite financial aid to speak inform students during instructional hours and list available financial aid resources Require review on Canvas of all financial aid resources before accessing the next page of instructional content. Invite Los Medanos counselors to attend the entry portal courses to the ETEC program. Incentivize creating an educational plan with a Los Medanos College counselor. Invite alumni focusing on African-American graduates currently gainfully employed in the local industrial community.
Low Income	84.3%	82.1% - in-progress	ongoing	Russ Pederson	<ul style="list-style-type: none"> Invite financial aid to speak inform students during instructional hours and list available financial aid resources Require review on Canvas of all financial aid resources before accessing the next page of instructional content. Invite Los Medanos counselors to attend the entry portal courses to the ETEC program. Incentivize creating an educational plan with a Los Medanos College counselor. Invite alumni focusing on African-American graduates currently gainfully employed in the local industrial community.
Foster Youth	92.5%	100.0% - completed		Russell Pedersen Dennis Franco	<ul style="list-style-type: none"> Invite financial aid to speak inform students during instructional hours and list available financial aid resources Require review on Canvas of all financial aid resources before accessing the next page of instructional content. Invite Los Medanos counselors to attend the entry portal courses to the ETEC program. Incentivize creating an educational plan with a Los Medanos College counselor. Invite alumni currently gainfully employed in the local industrial community.

3. Assessment Status Update and CSLO Assessment Effectiveness : Version by Pedersen, Russell on 02/12/2022 11:50

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
ETEC-034 Instrument Calibration	Unknown	Was assessed 7-May-2021	Russ Pedersen
ETEC-050 Instrument Proc. Ctl.	Due to laboratory space and limited labs station availability we were unable to offer this course during the Covid-19 pandemic.	Fall 2021 Term, exact date TBD	Russ Pedersen
ETEC-052 Applied Proc Ctl Lab	Due to laboratory space and limited labs station availability we were unable to offer this course during the Covid-19 pandemic.	Fall 2021 Term, exact date TBD	Russ Pedersen
ETEC-056 Code for Instrument App.	Due to laboratory space and limited labs station availability we were unable to offer this course during the Covid-19 pandemic.	Fall 2021 Term, exact date TBD	Russ Pedersen
ETEC-058 Analytical Inst.	Due to laboratory space and limited labs station availability we were unable to offer this course during the Covid-19 pandemic.	Fall 2021 Term, exact date TBD	Russ Pedersen

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.)?

- Moving toward standardization Canvas shells based on the BEOI templates.
- Dividing a single lecture course into two smaller labs allowing students to have more individual time on the limited availability of lab stations.

4. Course Outline of Record Updates : Version by Pedersen, Russell on 02/12/2022 11:50

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 COOR(s) 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
ETEC020 - Electric Motor Control	Eric Ottosen
ETEC022 - Semiconductor Devices	Russ Pedersen
ETEC024 - Digital Devices	Russ Pedersen
ETEC030 - Programmable Logic Controllers	Russ Pedersen

Impact of Resource Allocation