



CTE PROGRAM REVIEWS

ED CODE §78016

2016

A review of Imperial Valley College Career Technical Education (CTE) programs has been completed pursuant to California Education Code, Division 7, Part 48, Chapter I, Article I, Section 78016, which requires every community college to conduct a two-year review of CTE programs that evaluates:

1. **LABOR MARKET DEMAND:** That the program meets a documented local labor market demand;
2. **UNNECESSARY DUPLICATION:** That the program does not represent unnecessary duplication of other manpower training programs in the area; and
3. **EMPLOYMENT & COMPLETION:** That the program demonstrates effectiveness as measured by the employment and completion success of its students.

Programs that do not meet all of these requirements shall be terminated within one year.

The following tables represent a summary report of all programs. The CTE Program Reviews are accessible at <https://www.imperial.edu/cte-program-reviews-2016>.

The summary includes an assessment of positive factors of the program and a list of concerns, where applicable. The evaluation of Perkins performance is based on State-mandated targets on completion, persistence and transfer, and placements. Student participation is the number of students enrolled and participating in each program. Mitigation relates to the actions necessary for program improvement. A recommendation for the continuance of each program is also submitted. The recommendations are divided into three categories.

1. **CONTINUANCE:** Programs with strong labor market demand, performance, fill rates, and completion rates are recommended to continue without any mitigation.
2. **MITIGATION:** Programs with strong components, but with some issues of concern are recommended to continue with some mitigation measures.
3. **DISCONTINUANCE:** Programs with a number of concerns, including low labor market demand, low completion rates, and low performance are recommended for discontinuance, or continuance with a recommendation for faculty to conduct a thorough assessment of the program viability.

SUMMARY OF RECOMMENDATIONS

CTE PROGRAM	RECOMMENDATION			
	Continue Without Mitigation	Continue With Mitigation	Considered For Discontinue	Too New, No Review
Administration of Justice	√			
Agricultural Business Management		√		
Agricultural Crop Science		√		
Agricultural Science		√		
Air-Conditioning & Refrigeration Technology		√		
Alcohol & Drug Studies		√		
Alternative Energy – Solar Technology			√	
Automotive Technology	√			
Brakes, Suspension, & Steering				√
Building Construction Technology		√		
Business Accounting Technician	√			
Business Administration	√			
Business Administrative Assistant		√		
Business Management	√			
Business Office Technician	√			
Child Development	√			
Cisco CCNA Discovery			√	
Computer Information Systems (CIS)		√		
Correctional Science	√			
Diesel Farm Machinery & Heavy Equipment				√
Digital Design & Production	√			
Early Childhood Education	√			
Electrical/Electronic & Air Conditioning				√
Electrical Technology	√			
Electrical Trades	√			
Emergency Medical Services		√		
Energy Efficiency Technology			√	
Engine Performance & Drivability				√
Engine Repair & Machinist				√
Fire Technology	√			
Firefighter I	√			
Medical Assistant		√		
Nursing – Licensed Vocational (LVN)	√			
Nursing – Registered (RN)	√			
Peace Officer Standards & Training	√			
Pharmacy Technician		√		
Transmissions & Power Train				√
Water Treatment Systems Technology	√			
Welding Technology		√		

RECOMMENDATION FOR PROGRAM CONTINUANCE WITH NO MITIGATION

ADMINISTRATION OF JUSTICE DEGREE AND CERTIFICATE APPROVED 1970	
POSITIVE FACTORS Strong local labor demand Consistent Perkins performance Strong fill rates Strong productivity ration Very strong completers in degrees and certificates	CONCERNS None
RECOMMENDATION It is recommended that the Administrative of Justice program continue without mitigation.	

AUTOMOTIVE TECHNOLOGY DEGREE AND CERTIFICATE APPROVED 1970	
POSITIVE FACTORS Solid labor market data Accredited by the NATEF Tied to industry recognized credential	CONCERNS Low fill rates in some courses. Low Perkins performance levels. Very low completion of degrees and certificates. Productivity ratio 7 in 2012-2013.
RECOMMENDATION Although the program has low performance indicators in completion rates, it is anticipated the restructure of the program from one large 39 unit certificate program to five short industry related certificates will mitigate this indicator. It is recommended that the Automotive Technology program continue without any further mitigation with a subsequent reevaluation in 2 years.	

BUSINESS ACCOUNTING TECHNICIAN DEGREE AND CERTIFICATE APPROVED 1970	
POSITIVE FACTORS Solid local labor market data. Solid Perkins performance levels. Solid degree and certificate completers	CONCERNS None
RECOMMENDATION It is recommended that the Business Accounting Technician program continue without mitigation.	

BUSINESS ADMINISTRATION DEGREE APPROVED 1970	
POSITIVE FACTORS Solid local labor market data. Solid Perkins performance levels. Solid productivity ratio around 15. Very strong completion of degrees.	CONCERNS No certificate completers in the last three years
RECOMMENDATION It is recommended that the Business Administration continue without mitigation; however, the department should consider the elimination of the certificate program since it appears to not be desired by students.	

BUSINESS MANAGEMENT DEGREE AND CERTIFICATE APPROVED 1993	
POSITIVE FACTORS Solid local labor market data. Solid fill rates. Productivity ratio around 14. Consistent completion of degrees and certificates.	CONCERNS None
RECOMMENDATION It is recommended that the Business Management Technician program continue with the following mitigation: <ul style="list-style-type: none"> • The program shall develop a comprehensive marketing plan to increase student participation in the program. • The Business Department should assess the distinctive value of each program in terms of industry and employment needs. 	

BUSINESS OFFICE TECHNICIAN DEGREE AND CERTIFICATE APPROVED 1970	
POSITIVE FACTORS Strong local labor demand. Consistent Perkins performance. Consistent degree and certificate completers	CONCERNS None
RECOMMENDATION It is recommended that the Business Office Technician continue without mitigation.	

CHILD DEVELOPMENT (Specializations: Administration, Children with Special Needs, Infant/Toddler, School-Age) DEGREE APPROVED 1972	
POSITIVE FACTORS Strong local labor demand. Strong industry recognized credentials. Solid Perkins performance numbers. High fill rates. Consistent degree and certificate completers	CONCERNS None
RECOMMENDATION It is recommended that the Child Development program continue without mitigation.	

CORRECTIONAL SCIENCE DEGREE AND CERTIFICATE 1993	
POSITIVE FACTORS Strong local labor demand. High productivity Growing trend in completions	CONCERNS None
RECOMMENDATION It is recommended that the Correctional Science program continue without mitigation.	

ELECTRICAL TECHNOLOGY (Specializations: Electrical Wiring; Electronics) DEGREE AND CERTIFICATE APPROVED 2010	
POSITIVE FACTORS Strong labor market demand. Solid program participation. Improvements in completion in degrees and certificates.	CONCERNS Low Perkins performance Low productivity, ratio ~8
RECOMMENDATION It is recommended that the Electrical Technology program continue at Imperial Valley College. Faculty shall continue its efforts to obtain full program approval from the Department of Apprenticeship Standards and the National Center for Construction Education and Research.	

FIRE TECHNOLOGY DEGREE AND CERTIFICATE APPROVED 2011	
POSITIVE FACTORS Solid labor market data. Growing student participation Solid program completion in degrees.	CONCERNS Low fill rates in some courses.
RECOMMENDATION It is recommended that the Fire Technology program continue without mitigation.	

FIREFIGHTER I CERTIFICATE APPROVED 2006	
POSITIVE FACTORS Solid labor market data. Strong fill rates. Very strong productivity ratio. Strong certificate completion in 2013.	CONCERNS Low Perkins performance.
RECOMMENDATION It is recommended that the Firefighter I program continue without mitigation.	

NURSING – LICENSED VOCATIONAL (LVN) DEGREE AND CERTIFICATE APPROVED 1970	
POSITIVE FACTORS Tied to a State licensure. Very strong local labor market demand. Very strong participation. Strong Perkins performance. Solid fill rates. Very strong degree completion rates.	CONCERNS Very low productivity ratio around 5. Nursing productivity is low due to regulatory restrictions on student/faculty ratios, equipment, and other regulations.
RECOMMENDATION It is recommended that the Licensed Vocation Nursing program continue without mitigation.	

NURSING – REGISTERED (RN) DEGREE APPROVED 1970	
POSITIVE FACTORS Tied to a State licensure. Solid labor market data. Solid Perkins performance. Solid completion rates in degrees and certificates. Strong fill rates.	Comments: Very low productivity ratio (between 4-5). Nursing programs are costly programs due to strict regulatory provisions, low student to instructor ratios, and equipment.
RECOMMENDATION It is recommended that the Registered Nursing program continue without mitigation.	

PEACE OFFICER STANDARDS AND TRAINING (POST) NO DEGREE OR CERTIFICATE	
POSITIVE FACTORS Strong local labor demand. Strong fill rates. Very high productivity although productivity analysis does not factor in professional experts who conduct and teach many modules outside the FTES/FTEF productivity analysis. EWD conducted an analysis of the actual cost of conducting the academy including professional experts and found the POST academy to be self-sufficient. Direct link to industry recognize credentials.	CONCERNS The POST program is not a certificate or degree program. Graduates receive a POST Certification which allows students to apply for different law enforcement positions. Yet, the data is not captured institutionally.
RECOMMENDATION It is recommended that the Peace Officer Standards and Training (POST) continue without mitigation.	

WATER TREATMENT SYSTEMS TECHNOLOGY (Specialization: Wastewater Treatment) DEGREE AND CERTIFICATE APPROVED 2010	
POSITIVE FACTORS Solid local labor demand. Solid student participation. Consistent completion in degrees and certificates.	CONCERNS Low Perkins performance. Low fill rates in upper division courses.
RECOMMENDATION It is recommended that the Water Technology program continue at IVC with some remediation in the program structure and scheduling.	

WELDING TECHNOLOGY

DEGREE AND CERTIFICATE APPROVED 1970

POSITIVE FACTORS

Solid and growing labor market data.
Very strong student participation.
Strong fill rates.
Strong completion of degrees and certificates.

CONCERNS

Low productivity ratio between 8-9. CTE programs, particularly in health and industrial technology have low productivity rates given low enrollment CAPS established by safety regulations and space limitations.

RECOMMENDATION

It is recommended that the Welding Technology program continue with some remediation in the program structure and scheduling..

RECOMMENDATION FOR PROGRAM CONTINUANCE WITH MITIGATION

AGRICULTURAL BUSINESS MANAGEMENT DEGREE APPROVED 1970 AND CERTIFICATE APPROVED 2010	
POSITIVE FACTORS Increasing efficiency ratio Solid fill rates in some courses New faculty	CONCERNS Only one degree completion in three years Low participation rate.
RECOMMENDATION It is recommended that the Water Technology program continue at IVC with some remediation in the program structure and scheduling.	

AGRICULTURAL CROP SCIENCE CERTIFICATE APPROVED 1990	
POSITIVE FACTORS Solid labor data New faculty	CONCERNS Low Perkins performance Low fill rates Declining productivity ratio Very low completers of degree or certificates. One certificate in three years
RECOMMENDATION It is recommended that the Agricultural Crop Science certificate program be restructured to align with the Agriculture Science ADT.	

AGRICULTURAL SCIENCE DEGREE APPROVED 1970	
POSITIVE FACTORS Strong fill rates New faculty	CONCERNS Low participation numbers Low Perkins performance Low number of degree completers and certificates
RECOMMENDATION It is recommended that the Agriculture Science continue with mitigation. The ADT will be a solid recruitment toll for transfer students and should increase program enrollment and completion. An outreach program to connect with local industry representatives and high school teachers will enhance the image and vitality of the program.	

AIR CONDITIONING AND REFRIGERATION TECHNOLOGY DEGREE AND CERTIFICATE APPROVED 2009	
POSITIVE FACTORS Projected growth in local labor demand. Solid fill rates. Strong completion of certificates.	CONCERNS No degree completions in three years. Low productivity ratio, between 9-10.
RECOMMENDATION It is recommended that the Air Conditioning & Refrigeration Technology program continue at Imperial Valley College with a further analysis of labor market data.	

ALCOHOL AND DRUG STUDIES DEGREE AND CERTIFICATE APPROVED 1986	
POSITIVE FACTORS Strong fill rates. Consistent completion in degrees and certificates. Very strong productivity ratio.	CONCERNS Labor market data is specific substance abuse workers not available but employment opportunities in this discipline branch out into other areas.
RECOMMENDATION It is recommended that the ADS Program continue with mitigation to further analyze and document local labor demand.	

BUILDING CONSTRUCTION TECHNOLOGY (Specializations: Carpentry; Concrete Masonry) DEGREE AND CERTIFICATE APPROVED 2010	
POSITIVE FACTORS Strong local labor market data.	CONCERNS Low student participation rates. Low Perkins performance rates. Low fill rates. Very low number of completion of degrees and certificates. A low productivity ratio, between 5-7.
RECOMMENDATION It is recommended that the construction program continue at Imperial Valley College with a closer review of program and certificate completers for the next review.	

BUSINESS ADMINISTRATIVE ASSISTANT

DEGREE AND CERTIFICATE APPROVED 1993

POSITIVE FACTORS

Solid local labor market data.

CONCERNS

Low Perkins performance

RECOMMENDATION

It is recommended that the Business Administrative Assistant program continue with mitigation. Faculty needs to work with the MIS department to evaluate the low number of students identified by the CCCCO in the Perkins indicators. The faculty should also evaluate the low number of completers and develop strategies to increase these numbers.

COMPUTER INFORMATION SYSTEMS

DEGREE APPROVED 2011

POSITIVE FACTORS

An acceptable local labor market demand.
Direct connection to industry recognizes credentials which enhance opportunities for employment.
Strong numbers based on Perkins performance levels.
Consistently high fill rates.
Productivity ratio around 14.
Consistent history of certificate completers.

CONCERNS

The program is considering a modification to align to a model curriculum which will align better to four-year schools. This modification will encourage degree completers and transfer students.

RECOMMENDATION

It is recommended that the CIS program continue at Imperial Valley College. The value of the degree option should be evaluated by the CIS faculty since it appears that students are not soliciting certificates.

DIGITAL DESIGN AND PRODUCTION
DEGREE AND CERTIFICATE APPROVED 2009

POSITIVE FACTORS

Very high fill rates in the beginning levels of the program. Productivity declines in the later stages.
Productivity ratio between 13-14.

CONCERNS

Labor market data shows limited job openings in this discipline.
Very low number of degree and certificate completers in the last three years.
The fill rates for CIS 214 are very low.

RECOMMENDATION

The program as a Multimedia and Web Design model was identified in the last program review as a program to be considered for elimination. The local labor demand, student participation, and completion rates are not performing well. However, the revisions made in the curriculum to a digital design and production model may transform this program and improve the quality and student participation, also improving the CTE outcomes. It is recommended that this program continue at Imperial Valley College to assess how the curriculum changes affect performance. The low local labor demand is also concerning. Faculty will be asked to provide additional labor market data to substantiate the need for this program.

EMERGENCY MEDICAL SERVICES (PARAMEDIC)
DEGREE AND CERTIFICATE APPROVED 1996

POSITIVE FACTORS

Solid participation.
Improvement in certificate completion.
Only training facility in Imperial Valley.

CONCERNS

Limited local labor market. Incumbent workers can use the training to obtain promotions.
Opportunities outside Imperial Valley.
Low fill rates.
Low productivity ratio.

RECOMMENDATION

It is recommended that the Emergency Medical Services program continue at Imperial Valley College with monitoring of the labor market demand to ensure that there are local job opportunities for program completers. Additionally, the usefulness or adequacy of the degree program should be evaluated given the low number of degree completers.

ELECTRICAL TRADES DEGREE AND CERTIFICATE APPROVED 2010	
POSITIVE FACTORS Program completely paid by Imperial Irrigation District as the base program for all apprenticeship. Program is open to all students	CONCERNS Program has low fill rates but no financial impact to the college since it is fully subsidized. If the subsidy ends, the college will need to reconsider the viability of the program as the performance does not appear to warrant continuation. The program has only 3 certificate completers in 3 years. It appears that the degree option may not be a viable option for this program.
RECOMMENDATION It is recommended that the Electrical Trades program continue with the following mitigation: <ul style="list-style-type: none"> • The degree option shall be evaluated to determine its viability for this program. • That program continues, subject to the continuous funding from the IID apprenticeship programs. 	

MEDICAL ASSISTANT CERTIFICATE APPROVED 1998	
POSITIVE FACTORS Program tied to industry certification. Strong local labor market. Strong participation. High fill rates. Strong productivity ratio.	CONCERNS Low number of completers
RECOMMENDATION It is recommended that the Medical Assistant program continue at Imperial Valley College with mitigation to assess the low number of students completing their degrees and certificates.	

PHARMACY TECHNICIAN DEGREE AND CERTIFICATE APPROVED 2011	
POSITIVE FACTORS Solid number of completers in both certificates and degrees, particularly in 2013. High fill rates. Industry recognizes certification. Solid participation numbers.	CONCERNS Limited labor market data. May have saturated market.
RECOMMENDATION It is recommended that the Pharmacy Technician program continue at Imperial Valley College with monitoring of the labor market demand to ensure that there are local job opportunities for program completers.	

RECOMMENDATION FOR POTENTIAL PROGRAM DISCONTINUANCE

ALTERNATIVE ENERGY – SOLAR TECHNOLOGY DEGREE AND CERTIFICATE APPROVED	
POSITIVE FACTORS Emerging industry to include other alternative energy disciplines New FT faculty New state-of-the-art facility	CONCERNS Low productivity No graduates
RECOMMENDATION It is recommended that the Alternative Energy - Solar Technology program continue with a closer scrutiny and expectations over enrollment, completers, and fill rates.	

CISCO CCNA DISCOVERY DEGREE AND CERTIFICATE APPROVED 2012	
POSITIVE FACTORS	CONCERNS Low participation Low fill rates Low local labor demand Low productivity
RECOMMENDATION It is recommended that the CISCO CCNA Academy be considered for possible elimination due to low participation, low fill rates, low local labor demand, and low productivity. Final determination for the continuation of the program shall be made in the spring after consideration of the following elements: <ul style="list-style-type: none"> • Possible restructure of program to include hybrid courses that will add student enrollment. • The restructure of the program to eliminate the upper two level course work and change then CISCO program to a CCNET (Cisco Certifies Entry Networking) and eliminate the CCNA. • Solicit input from employers and industry representatives to re-evaluate the local labor market demand for program completers. 	

ENERGY EFFICIENCY TECHNOLOGY
DEGREE AND CERTIFICATE APPROVED 2011

PROGRAM EVALUATION

POSITIVE FACTORS

Strong program completers in certificates.
Program operated under a grant to provided
financial aid and student support.
New Building.

CONCERNS

Limited local labor demand.
Uncertainty of program due to the closing of
grant program.
Low student participation
Program courses have not been offered in two
years

RECOMMENDATION

It is recommended that the Energy Efficiency program be eliminated from Imperial Valley College.