

Los Medanos College
Program Review Data for
Fire Control Technology
(On-site)

Prepared by the Office of Institutional Research

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Background

This report provides the department with three-year trends on indicators on the following areas:

- Enrollment
- Productivity
- Student Success

For Vocational Education programs, data on VTEA core indicators are provided.

I. Enrollment: This section provides a three-year trend on student enrollment by headcount as of first census. Because our demographic make up is rapidly changing, figures by ethnicity are also provided.

II. Productivity: In this section, three-year trends are provided for: FTEF/FTES, FTES, Part-time FTEF, full-time FTEF, and full-time Staff. For most measures, college figures are provided for comparison purposes.

III. Student Success. This section consists of: Retention Rates, Success rates, number of students with declared major who completed 18 units or more, and number of degrees and certificates awarded. In this section, statistics by ethnicity are also provided.

Note: ALL DATA is for the academic year (Fall and Spring only).

Definitions for each measure are provided in the footnotes.

Data Sources: The two main sources of information are: 1. DataTel and the Research Data Warehouse. Productivity figures were provided by the Business Office.

Statistics

HEADCOUNT ENROLLMENT (Unduplicated at Census): Headcount enrollment in Fire Technology (On-Site) decreased from 318 in 2002-2003 to 259 in 2004-2005, a decrease of 59 students in the last three years. When examined by ethnicity, it is observed that Asians increased by 1% and Whites by 9%. Hispanics decreased by 1%.

African-Americans have been under represented and Whites over represented for the last three years.

Headcount Enrollment: Fire Technology (On-site)

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	N=318	N=12946	N=282	N=11527	N=259	N=12808	-59	-138
							-19%	-1%
Asian	2%	5%	2%	6%	3%	6%	1%	1%
African American (non-Hispanic)	5%	13%	6%	13%	5%	14%	0%	1%
Filipino	5%	6%	3%	6%	3%	6%	-2%	0%
Hispanic	17%	21%	19%	23%	16%	24%	-1%	3%
American Indian/Alaskan Native	2%	1%	21%	1%	3%	1%	1%	0%
Other Non-White	5%	3%	5%	3%	1%	2%	-4%	-1%
Pacific Islander	1%	1%	1%	1%	1%	1%	0%	0%
White non-Hispanic	58%	44%	56%	43%	67%	43%	9%	-1%
Unknown	6%	7%	6%	5%	2%	3%	-4%	-4%
All Students	100%	100%	100%	100%	100%	100%	-	-

NOTE: Percentages may not add up to 100% due to rounding.

SEATCOUNT ENROLLMENT (Duplicated at Census): Seatcount enrollment in Fire Technology (On-Site) decreased from 526 in 2002-2003 to 479 in 2004-2005, a decrease of 47 seats for the last three years. When examined by ethnicity, seatcount enrollment increased for Whites by 11%. Seatcount decreased for African-Americans by 1% and for Hispanics by 5%.

Seatcount Enrollment: Fire Technology (On-site)

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	N=526	N=43127	N=483	N=40792	N=479	N=42549	-47	-578
							-9%	-1%
Asian	2%	5%	2%	6%	2%	6%	0%	1%
African American (non-Hispanic)	5%	14%	5%	14%	4%	15%	-1%	1%
Filipino	4%	6%	4%	6%	4%	6%	0%	0%
Hispanic	19%	20%	19%	22%	14%	24%	-5%	4%
American Indian/Alaskan Native	3%	1%	2%	1%	3%	1%	0%	0%
Other Non-White	3%	3%	6%	3%	1%	3%	-2%	0%
Pacific Islander	1%	1%	1%	1%	1%	1%	0%	0%
White non-Hispanic	56%	43%	56%	43%	67%	43%	11%	0%
Unknown	7%	7%	7%	5%	2%	2%	-5%	-5%
All Students	100%	100%	100%	100%	100%	100%	-	-

NOTE: Percentages may not add up to 100% due to rounding.

PRODUCTIVITY: Productivity (FTES/FTEF) for LMC's Fire Technology (On-Site) program has slightly decreased from 25.7 in 2002-2003, to 25.3 in 2004-2005, a decrease of .4 in the last three years.

Part-time FTEF decreased from 3.18 in 2002-2003 to 2.11 in 2004-2005, a decrease of 1.07.

FTES/FTEF: Fire Technology (On-site)

	2002-2003	2003-2004	2004-2005	Change
Program	25.7	17.9	25.3	-.4
CCC				
DVC				
State Average				

Productivity (FTES/FTEF) is defined as the average number of FTES earned per full-time equivalent instructor. FTES is defined as 525 student contact hours, based on a 15 hour weekly course load for 2 semester at 17.5 weeks per semester (15x2x17.5=525).

FTEF: Fire Technology (On-site)

	2002-2003	2003-2004	2004-2005	Change
FT FTEF	-	.06	-	
PT FTEF	3.18	3.02	2.11	-1.07
Classified FTEF	-	-	-	

RETENTION RATES: Retention rate for students in the Fire Technology (On-Site) program has fluctuated in the last three years. In 2002-2003 it was 90%, in 2003-2004, 86% and in 2004-2005 89%. The retention rate of the program has been higher than the college average for the last three years.

When examining retention rates by ethnicity for the last three years, it is observed that the retention rate for Asians increased by 17%, for African-American 3% and for Filipinos by 27%. The retention rates for Hispanics have decreased by 1 and for Whites by 4%.

Retention Rates: Fire Technology (On-site)

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	652	47,311	489	41,959	487	42,937	-165	-4,374
Asian	83%	84%	100%	84%	100%	87%	17%	3%
African American (non-Hispanic)	92%	73%	86%	73%	95%	72%	3%	-1%
Filipino	73%	84%	94%	84%	100%	82%	27%	-2%
Hispanic	86%	82%	77%	81%	85%	82%	-1%	0%
American Indian/Alaskan Native	85%	80%	83%	84%	87%	81%	2%	1%
Other Non-White	91%	81%	85%	80%	100%	79%	9%	-2%
Pacific Islander	100%	81%	100%	82%	100%	80%	0%	-1%
White Non-Hispanic	92%	84%	88%	85%	88%	84%	-4%	0%
Unknown	92%	84%	74%	81%	82%	83%	-10%	-1%
All LMC Students	90%	82%	86%	82%	89%	82%	-1%	0%
State Average		83%		83%		83%		0%

DEFINITION: Student is retained in the course to end of term. A, B, C, D, F, CR, NC, I grade notations.

MEASUREMENT: Percent of students retained in courses out of total enrolled in courses. The retention rate is calculated by dividing the numerator (number of students with A, B, C, D, F, CR, NC, I) by the denominator (number of students with A, B, C, D, F, CR, NC, W, I).

SUCCESS RATES: Success rate for students in the Fire Technology (On-site) program has increased from 74% in 2002-2003 to 78% in 2004-2005, an increase of 4% in the last three years. It has also been higher than the college average.

When examining success rates by ethnicity for the last three years, it is observed that the success rate for Asians increased by 50%, for African-Americans by 7%, for Filipinos by 40%, for Hispanics by 3% and for Whites by 1%.

Success Rates: Fire Technology (On-site)

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	652	47,311	489	41,959	487	42,937	-165	-4,374
Asian	50%	71%	90%	72%	100%	74%	50%	3%
African American (non-Hispanic)	48%	51%	55%	51%	55%	50%	7%	-1%
Filipino	50%	70%	72%	71%	90%	70%	40%	0%
Hispanic	69%	65%	66%	66%	72%	66%	3%	1%
American Indian/Alaskan Native	77%	69%	33%	70%	87%	64%	10%	-5%
Other Non-White	65%	61%	70%	65%	100%	65%	35%	4%
Pacific Islander	80%	63%	75%	61%	80%	61%	0%	-2%
White Non-Hispanic	78%	72%	74%	74%	79%	72%	1%	0%
Unknown	87%	69%	68%	66%	73%	67%	-14%	-2%
All Students	74%	67%	71%	68%	78%	67%	4%	0%
State Average		67%		67%		67%		0%

DEFINITION: Student succeeds in the course to end of term. A, B, C, CR grade notations.

MEASUREMENT: Percent of students successful in courses out of total enrolled in courses. The success rate is calculated by dividing the numerator (number of students with A, B, C, CR) by the denominator (number of students with A, B, C, D, F, CR, NC, W, I).

NUMBER OF STUDENTS WITH DELCARED MAJOR WHO COMPLETED 18 UNTS OR MORE:

The number of students with Fire Technology as their major and with 18 units or more has increased from 65 in 2002-2003 to 82 in 2004-2005, an increase of 17 students in the last three years.

**Number of Students with Declared Major who Completed 18 Units or More:
Fire Technology**

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	N=65	N=3586	N=110	N=3649	N=82	N=4711	+17	+1125
Asian	2%	6%	3%	6%	3%	6%	1%	0%
African American (non-Hispanic)	3%	11%	4%	11%	4%	12%	1%	1%
Filipino	0%	8%	1%	7%	0%	7%	0%	-1%
Hispanic	22%	22%	23%	23%	13%	24%	-9%	2%
American Indian/Alaskan Native	3%	1%	0%	1%	5%	1%	2%	0%
Other Non-White	2%	3%	3%	3%	0%	3%	-2%	0%
Pacific Islander	5%	1%	3%	1%	1%	1%	-4%	0%
White Non-Hispanic	54%	46%	60%	46%	69%	44%	15%	-2%
Unknown	11%	2%	5%	2%	5%	2%	-6%	0%
All Students	100%	100%	100%	100%	100%	100%	-	-

NOTE: Percentages may not add up to 100% due to rounding.

NUMBER OF DEGREES AND CERTIFICATES: Twenty Associate degrees and 4 Certificates have been awarded in Fire Technology in the last three years.

Number of Degrees and Certificates: Fire Technology

	2002-2003	2003-2004	2004-2005	Percent Change
Degrees	6	4	10	+4
Certificates	0	2	2	+2

VTEA Core Indicators for: Fire Control Technology

CORE INDICATORS	2003-2004		2004-2005		2005-2006	
	College	Percentage above or below State Level	College	Percentage above or below State Level	College	Percentage above or below State Level
Core 1. Achievement	87.21	8.45	86.09	6.33	84.14	4.38
Core 2. Completions	14.29	-45.53	80.00	19.18	30.00	-30.82
Core 3a. Employment	100.00	16.81	100.00	16.81	95.00	11.81
Core 3b. Employment Retention	92.31	9.56	90.00	7.15	100.00	17.15
Core 4a Nontraditional Participation	11.54	-17.44	7.50	-22.48	8.16	-21.82
Core 4b. Nontraditional completion	00.00	N/A	12.50	N/A	16.67	N/A

Data obtained from Chancellor's Office VTEA Reports.

DEFINITIONS

Indicator One: Skill Attainment – GPA of at least 2.0 on Forms and Grade C & Above on all other reports. Indicator *One* uses enrollments in Apprenticeship, Advanced Occupational or Clearly Occupational courses (coded with SAM Priority codes A-C). Students may be enrolled in more than one program area and may be included in more than one population grouping.

Indicator Two: Completions – Certificates, Degrees and Transfers

Indicator *Two* measures completions for vocational student "Leavers and Completers." Receipt of a certificate or degree or enrollment in a California four year public University with or without a degree is considered a completion. Military enrollment was not available for this cohort and was removed from all cohorts on three year presentations for the 2003-04 reports.

Indicator Three: Placement and Retention

Indicator *Three* measures *Placement* as UI covered employment or continuation at CSU/UC and *Retention* as three consecutive quarters in UI covered employment for vocational student "Leavers and Completers" in their first year after college. Students found continuing at UC or CSU are considered placed but are removed prior to calculations for retention. Retention is based solely on UI Employed Leavers and Completers.

Military enrollment and federal government employment, although available in previous years, were not available for this cohort. Placement status using military and federal employment was removed from all cohorts on three year presentations for the 2005-06 reports.

Indicator Four: Equity - Training Leading to Nontraditional Employment

Indicator *Four*, Participation, measures the participation of students in 2002-03 vocational courses (SAM code A –D) leading to employment where either gender is less than 25% of those employed using 1990 Census data.

Indicator *Four*, Completion, measures Completion of vocational student "Leavers and Completers" in training leading to employment where either gender is less than 25% of those employed using 1990 Census data.