

Los Medanos College
Program Review Data for
Chemistry

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): Student headcount in Chemistry decreased from 375 in 2002-2003 to 367 in 2004-2005, a decrease of 8 students. When examined by ethnicity, it is observed that the proportion of African-Americans increased by 3% and Hispanics by 8%; Filipinos have decreased by 1% and Whites by 8% in the last three years.

The ethnic composition of students in the program has generally reflected the ethnic composition of the students in the institution in the last three years. However, African-Americans and Whites are slightly underrepresented and Filipinos are slightly over represented.

Headcount Enrollment: Chemistry

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	N=375	N=12946	N=368	N=11527	N=367	N=12808	-8	-138
							-2%	-1%
Asian	9%	5%	10%	6%	9%	6%	0%	1%
African American (non-Hispanic)	6%	13%	8%	13%	9%	14%	3%	1%
Filipino	15%	6%	13%	6%	14%	6%	-1%	0%
Hispanic	20%	21%	22%	23%	28%	24%	8%	3%
American Indian/Alaskan Native	1%	1%	1%	1%	0%	1%	-1%	0%
Other Non-White	3%	3%	4%	3%	3%	2%	0%	-1%
Pacific Islander	1%	1%	1%	1%	1%	1%	0%	0%
White non-Hispanic	42%	44%	38%	43%	34%	43%	-8%	-1%
Unknown	4%	7%	4%	5%	2%	3%	-2%	-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 for Chemistry slightly decreased from 440 in 2002-2003 to 433 in 2004-2005, a decrease of 7 seats for the last three years. When examined by ethnicity, seatcount enrollment increased for Asians by 2%, for African-Americans by 3% and for Hispanics by 10%. Seatcount enrollment decreased for Filipinos by 2% and for Whites by 10%.

Seatcount Enrollment: Chemistry

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	N=440	N=43127	N=417	N=40792	N=433	N=42549	-7	-578
							-2%	-1%
Asian	8%	5%	10%	6%	10%	6%	2%	1%
African American (non-Hispanic)	6%	14%	8%	14%	9%	15%	3%	1%
Filipino	16%	6%	12%	6%	14%	6%	-2%	0%
Hispanic	19%	20%	23%	22%	29%	24%	10%	4%
American Indian/Alaskan Native	1%	1%	1%	1%	0%	1%	-1%	0%
Other Non-White	3%	3%	4%	3%	3%	3%	0%	0%
Pacific Islander	1%	1%	1%	1%	1%	1%	0%	0%
White non-Hispanic	43%	43%	38%	43%	33%	43%	-10%	0%
Unknown	4%	7%	3%	5%	1%	2%	-3%	-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 Chemistry program has stayed relatively unchanged with a slight decreased of -.60 in the last three years. When compared to the sister colleges of the District, the productivity figure for LMC's Chemistry is higher.

There was no data available to determine full-, part-time FTEF.

FTES/FTEF: Chemistry

	2002-2003	2003-2004	2004-2005	Change
Program	16.50	15.20	15.90	-0.60
CCC*	15.50	13.80	15.80	+.30
DVC*	14.65	14.70	14.60	-.05
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).

*Data obtained from CGNOS.

FTEF: Chemistry

	2002-2003	2003-2004	2004-2005	Change
FT FTEF	n/a	n/a	n/a	n/a
PT FTEF	n/a	n/a	n/a	n/a
Classified FTEF	n/a	n/a	n/a	n/a

RETENTION RATES: Retention Rate for students in the program has remained relatively constant in the last three years at 72% and has been lower than the college average by 10%. The retention rate for Asians has increased by 11% and for African-Americans, by 7%.

Retention Rates: Chemistry

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
		461	47,311	420	41,959	443	42,937	-18
Asian	69%	84%	81%	84%	80%	87%	11%	3%
African American (non-Hispanic)	65%	73%	69%	73%	72%	72%	7%	-1%
Filipino	69%	84%	80%	84%	70%	82%	1%	-2%
Hispanic	67%	82%	66%	81%	68%	82%	1%	0%
American Indian/Alaskan Native	83%	80%	50%	84%	100%	81%	17%	1%
Other Non-White	71%	81%	56%	80%	69%	79%	-2%	-2%
Pacific Islander	50%	81%	50%	82%	100%	80%	50%	-1%
White Non-Hispanic	75%	84%	72%	85%	72%	84%	-3%	0%
Unknown	84%	84%	69%	81%	67%	83%	-17%	-1%
All LMC Students	72%	82%	71%	82%	72%	82%	0%	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 the program has stayed at 59% in 2002-2003, 60% in 2003-2004, and 58% in 2004-2005. Not much change. However, the success rate for the program is lower than the college average by about 10% (58% vs. 67%). When examining success rate by ethnicity, success rate for Asians has increased by 8%, for African-Americans by 11%, Hispanics by 2%. The success rate for Whites decreased by 4%. Success rates for African-Americans and Hispanics are lower than those of other students in the program.

Success Rates: Chemistry

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	461	47,311	420	41,959	443	42,937	-18	-4,374
Asian	67%	71%	73%	72%	75%	74%	8%	3%
African American (non-Hispanic)	42%	51%	54%	51%	53%	50%	11%	-1%
Filipino	62%	70%	67%	71%	63%	70%	1%	0%
Hispanic	47%	65%	54%	66%	49%	66%	2%	1%
American Indian/Alaskan Native	67%	69%	17%	70%	100%	64%	33%	-5%
Other Non-White	64%	61%	44%	65%	54%	65%	-10%	4%
Pacific Islander	0%	63%	25%	61%	80%	61%	80%	-2%
White Non-Hispanic	64%	72%	63%	74%	60%	72%	-4%	0%
Unknown	68%	69%	54%	66%	33%	67%	-35%	-2%
All Students	59%	67%	60%	68%	58%	67%	-1%	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:

There are about three students per year with Chemistry as their major and with 18 units or more.

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

	2002-2003	2003-2004	2004-2005	3-Year Change
	N=3	N=5	N=3	0
Asian	33%	20%	0%	-33%
African American (non-Hispanic)	0%	20%	33%	33%
Filipino	0%	0%	0%	0%
Hispanic	33%	20%	0%	-33%
American Indian/Alaskan Native	0%	0%	0%	0%
Other Non-White	0%	0%	0%	0%
Pacific Islander	0%	0%	0%	0%
White Non-Hispanic	33%	40%	33%	0%
Unknown	0%	0%	33%	33%
All Students	100%	100%	100%	-

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

NUMBER OF DEGREES AND CERTIFICATES: No degrees or certificates have been awarded in Chemistry in the last three years.

Number of Degrees and Certificates: Chemistry

	2002-2003	2003-2004	2004-2005	3-Year Change
Degrees	0	0	0	0
Certificates	0	0	0	0