

**Los Medanos College**  
**Program Review Data for**  
**Nursing – Registered Nursing (RN)**

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: DataTel and the Research Data Warehouse. Productivity figures were provided by the Business Office.

## STATISTICS

**HEADCOUNT ENROLLMENT (Unduplicated at Census):** Student headcount in Nursing (RN) increased from 719 in 2002-2003 to 940 in 2004-2005, an increase of 221 students. When examining student enrollment by ethnicity, it is observed that the proportion of Asians increased by 1%, of African-Americans by 4%, of Filipinos by 4% and of Pacific Islanders by 1% in the last three years. Hispanics decreased by 1% and Whites by 6% 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, with the exception of Filipinos. There is a higher proportion of Filipinos in the program as compared to the proportion of Filipinos in the institution.

### Headcount Enrollment: Nursing - RN

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	<b>N=719</b>	N=12946	<b>N=874</b>	N=11527	<b>N=940</b>	N=12808	<b>+221</b>	-138
							<b>+31%</b>	<b>-1%</b>
<b>Asian</b>	<b>6%</b>	5%	<b>6%</b>	6%	<b>7%</b>	6%	<b>1%</b>	1%
<b>African American (non-Hispanic)</b>	<b>14%</b>	13%	<b>13%</b>	13%	<b>18%</b>	14%	<b>4%</b>	1%
<b>Filipino</b>	<b>11%</b>	6%	<b>14%</b>	6%	<b>15%</b>	6%	<b>4%</b>	0%
<b>Hispanic</b>	<b>19%</b>	21%	<b>22%</b>	23%	<b>18%</b>	24%	<b>-1%</b>	3%
<b>American Indian/Alaskan Native</b>	<b>1%</b>	1%	<b>1%</b>	1%	<b>1%</b>	1%	<b>0%</b>	0%
<b>Other Non-White</b>	<b>3%</b>	3%	<b>2%</b>	3%	<b>3%</b>	2%	<b>0%</b>	-1%
<b>Pacific Islander</b>	<b>0%</b>	1%	<b>1%</b>	1%	<b>1%</b>	1%	<b>1%</b>	0%
<b>White non-Hispanic</b>	<b>42%</b>	44%	<b>38%</b>	43%	<b>37%</b>	43%	<b>-5%</b>	-1%
<b>Unknown</b>	<b>4%</b>	7%	<b>4%</b>	5%	<b>2%</b>	3%	<b>-2%</b>	-4%
<b>All Students</b>	<b>100%</b>	100%	<b>100%</b>	100%	<b>100%</b>	100%	<b>-</b>	<b>-</b>

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

**SEATCOUNT ENROLLMENT (Duplicated at Census):** Seatcount enrollment in Nursing – RN increased from 1320 in 2002-2003 to 1582 in 2004-2005, an increase of 262 seats for the last three years. When examined by ethnicity, seatcount enrollment increased for African-Americans by 4%, for Filipinos by 2% and for Pacific Islanders by 1%. Seatcount decreased for Hispanics by 1% and for Whites by 2%.

### Seatcount Enrollment: Nursing - RN

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	N=1320	N=43127	N=1566	N=40792	N=1582	N=42549	+262	-578
							+20%	-1%
<b>Asian</b>	6%	5%	5%	6%	6%	6%	0%	1%
<b>African American (non-Hispanic)</b>	11%	14%	11%	14%	15%	15%	4%	1%
<b>Filipino</b>	11%	6%	15%	6%	13%	6%	2%	0%
<b>Hispanic</b>	18%	20%	18%	22%	17%	24%	-1%	4%
<b>American Indian/Alaskan Native</b>	1%	1%	0%	1%	0%	1%	-1%	0%
<b>Other Non-White</b>	2%	3%	3%	3%	2%	3%	0%	0%
<b>Pacific Islander</b>	0%	1%	0%	1%	1%	1%	1%	0%
<b>White non-Hispanic</b>	47%	43%	45%	43%	45%	43%	-2%	0%
<b>Unknown</b>	3%	7%	2%	5%	2%	2%	-1%	-5%
<b>All Students</b>	100%	100%	100%	100%	100%	100%	-	-

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

**PRODUCTIVITY:** Productivity (FTES/FTEF) for LMC’s Nursing (RN) program has fluctuated from 9.5 in 2002-2003, to 11.5 in 2003-2004, and 9.8 in 2004-2005. The productivity figures for LMC’s Nursing (RN) program is lower than the corresponding figures for Contra Costa College (CCC) – no data was available for DVC.

FTEF has remained at about 8.39 in 2002-2003 and 8.30 in 2004-2005. Classified staff has remained at .50 for the last three years.

**FTES/FTEF: Nursing - RN**

	2002-2003	2003-2004	2004-2005	Change
<b>LMC Program</b>	9.5	11.5	9.8	+.3
<b>CCC*</b>	13.0	19.1	17.9	+4.9
<b>DVC*</b>	n/a	n/a	n/a	
<b>State Average</b>				

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 COGNOS.

**FTEF: Nursing - RN**

	2002-2003	2003-2004	2004-2005	Change
<b>FTEF</b>	8.39	8.34	8.30	-.09
<b>Classified FTEF***</b>	.50	.50	.50	0

\*\*\* Staffing with part-time faculty

**RETENTION RATES:** Retention rate for students in the Nursing (RN) program has increased from 90% in 2002-2003 to 96% in 2004-2005, a 6% increase. The retention rate for the program has been much higher than the college average for the last three years. In 2004-2005, the retention rate for the program was 14% higher than the college retention average (96% Vs. 82%).

When examining retention rates by ethnicity for the last three years, it is observed that the retention rate for African-Americans and Hispanics increased by 7%, for Filipinos by 4%, for Pacific Islanders by 44% and for Whites by 6%. The retention rates for Asians decreased by 2%.

### Retention Rates: Nursing - RN

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	<b>2,032</b>	<b>47,311</b>	<b>1,699</b>	<b>41,959</b>	<b>1,618</b>	<b>42,937</b>	<b>-414</b>	<b>-4,374</b>
<b>Asian</b>	<b>97%</b>	84%	<b>94%</b>	84%	<b>95%</b>	87%	<b>-2%</b>	3%
<b>African American (non-Hispanic)</b>	<b>89%</b>	73%	<b>90%</b>	73%	<b>96%</b>	72%	<b>7%</b>	-1%
<b>Filipino</b>	<b>92%</b>	84%	<b>93%</b>	84%	<b>96%</b>	82%	<b>4%</b>	-2%
<b>Hispanic</b>	<b>88%</b>	82%	<b>89%</b>	81%	<b>95%</b>	82%	<b>7%</b>	0%
<b>American Indian/Alaskan Native</b>	<b>96%</b>	80%	<b>100%</b>	84%	<b>83%</b>	81%	<b>-13%</b>	1%
<b>Other Non-White</b>	<b>80%</b>	81%	<b>93%</b>	80%	<b>94%</b>	79%	<b>14%</b>	-2%
<b>Pacific Islander</b>	<b>50%</b>	81%	<b>100%</b>	82%	<b>94%</b>	80%	<b>44%</b>	-1%
<b>White Non-Hispanic</b>	<b>91%</b>	84%	<b>95%</b>	85%	<b>97%</b>	84%	<b>6%</b>	0%
<b>Unknown</b>	<b>86%</b>	84%	<b>93%</b>	81%	<b>97%</b>	83%	<b>11%</b>	-1%
<b>All LMC Students</b>	<b>90%</b>	82%	<b>93%</b>	82%	<b>96%</b>	82%	<b>6%</b>	0%
<b>State Average</b>		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:** Overall success rate for students in the Nursing (RN) program has decreased from 80% in 2002-2003 to 78% in 2004-2005, a decrease of 2%. The success rate of the Nursing (RN) program has been consistently higher by about 10% than the college average for the last three years.

When examining success rates by ethnicity for the last three years, it is observed that the success rate for Pacific Islanders increased by 31% and for Whites by 1%. Success rates for Asians decreased by 6%, for African-Americans by 2%, for Filipinos by 7% and for Hispanics by 5% in the last three years.

### Success Rates: Nursing - RN

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	<b>2,032</b>	<b>47,311</b>	<b>1,699</b>	<b>41,959</b>	<b>1,618</b>	<b>42,937</b>	<b>-414</b>	<b>-4,374</b>
<b>Asian</b>	<b>87%</b>	71%	<b>85%</b>	72%	<b>81%</b>	74%	<b>-6%</b>	3%
<b>African American (non-Hispanic)</b>	<b>69%</b>	51%	<b>66%</b>	51%	<b>67%</b>	50%	<b>-2%</b>	-1%
<b>Filipino</b>	<b>89%</b>	70%	<b>85%</b>	71%	<b>82%</b>	70%	<b>-7%</b>	0%
<b>Hispanic</b>	<b>76%</b>	65%	<b>73%</b>	66%	<b>71%</b>	66%	<b>-5%</b>	1%
<b>American Indian/Alaskan Native</b>	<b>86%</b>	69%	<b>100%</b>	70%	<b>83%</b>	64%	<b>-3%</b>	-5%
<b>Other Non-White</b>	<b>73%</b>	61%	<b>86%</b>	65%	<b>79%</b>	65%	<b>6%</b>	4%
<b>Pacific Islander</b>	<b>25%</b>	63%	<b>71%</b>	61%	<b>56%</b>	61%	<b>31%</b>	-2%
<b>White Non-Hispanic</b>	<b>82%</b>	72%	<b>85%</b>	74%	<b>83%</b>	72%	<b>1%</b>	0%
<b>Unknown</b>	<b>72%</b>	69%	<b>76%</b>	66%	<b>90%</b>	67%	<b>18%</b>	-2%
<b>All Students</b>	<b>80%</b>	67%	<b>80%</b>	68%	<b>78%</b>	67%	<b>-2%</b>	0%
<b>State Average</b>		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 Nursing (RN) as their major and with 18 units or more increased from 118 in 2002-2003 to 159 in 2004-2005, an increase of 41 students in the last three years.

**Number of Students with Declared Major who Completed 18 Units or More:  
Nursing - RN**

	2002-2003	2003-2004	2004-2005	3-Year Change
	<b>N=118</b>	<b>N=138</b>	<b>N=159</b>	<b>+41</b>
<b>Asian</b>	7%	4%	8%	1%
<b>African American (non-Hispanic)</b>	15%	8%	8%	-7%
<b>Filipino</b>	21%	14%	16%	-5%
<b>Hispanic</b>	18%	25%	17%	-1%
<b>American Indian/Alaskan Native</b>	2%	1%	0%	-2%
<b>Other Non-White</b>	1%	3%	3%	2%
<b>Pacific Islander</b>	0%	1%	0%	0%
<b>White Non-Hispanic</b>	33%	43%	46%	13%
<b>Unknown</b>	3%	1%	3%	0%
<b>All Students</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>-</b>

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

**NUMBER OF DEGREES AND CERTIFICATES:** The number of Associate degrees awarded is 37 in 2002-2003, 52 in 2003-2004, and 41 in 2004-2005, a total of 130 degrees awarded in three years.

**Number of Degrees and Certificates: Nursing - RN**

	2002-2003	2003-2004	2004-2005	3-Year Change
<b>Degrees</b>	37	52	41	+4
<b>Certificates</b>	n/a	n/a	n/a	n/a

## VTEA Core Indicators for: Nursing -- RN

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. <b>Achievement</b>	93.04	14.28	91.48	11.72	95.31	15.55
Core 2. <b>Completions</b>	98.21	38.39	93.94	33.12	96.05	35.23
Core 3a. <b>Employment</b>	98.21	15.02	95.45	12.26	96.05	12.86
Core 3b. <b>Employment Retention</b>	92.45	9.70	98.41	15.56	95.83	12.98
Core 4a <b>Nontraditional Participation</b>	8.31	-20.67	9.50	-20.48	10.93	-19.05
Core 4b. <b>Nontraditional completion</b>	10.91	-16.04	16.13	-8.92	9.59	-15.46

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.