

Program Review Data

Chemistry

Spring 2011

- Programs are based on the categories used in the 2010 Comprehensive Master Plan.
- If a course is cross-listed between two programs, the designated "parent" course is credited with all associated data.
- References to "College-Wide" totals are specific to totals within the Credit, Noncredit and Adult High School Programs.
- All data, with the exception of the degrees awarded and discipline budgets, are based on Fall and Spring terms only. Summers are excluded.
- Enrollment figures for credit courses are based only on those students who were enrolled in the course at census. Noncredit enrollment is based on those students receiving 1 or more positive attendance hours in that course.

Program Performance

1. Weekly Student Contact Hours (WSCH)

	WSCH Fall 2009	WSCH Fall 2010	CMP Target WSCH Fall 2015	CMP Target WSCH Fall 2020
Fall WSCH	4,434.35	4,880.75	5,276.00	6,252.00
College-wide WSCH	127,312.64	136,378.91		

Note: Not all programs were assigned a specific WSCH target as a part of the master planning process. If those cells are empty, no data was available at the time of this report.

	WSCH 2009-2010	WSCH 2010-2011
Annual WSCH	9,011.38	9,882.13
College-wide Annual WSCH	258,834.45	277,107.82

2. Weekly Student Contact Hours/Full-time Equivalent Faculty (WSCH/FTEF)

	WSCH/FTEF Fall 2009	WSCH/FTEF Fall 2010	CMP Target WSCH/FTEF Fall 2015	CMP Target WSCH/FTEF Fall 2020
Fall WSCH/FTEF	443.43	451.92	434	434
College-wide WSCH/FTEF	407	414		

Note: Not all programs were assigned a specific WSCH/FTEF target as a part of the master planning process. If those cells are empty, no data was available at the time of this report.

	WSCH/FTEF 2009-2010	WSCH/FTEF 2010-2011
Annual WSCH/FTEF	437	453
College-wide Annual	44.0	
WSCH/FTEF	410	415

3. Fill Rate

	Fill Rate Fall 2009	Fill Rate Fall 2010	CMP Target Fill Rate Fall 2015	CMP Target Fill Rate Fall 2020
Fall Fill Rate	98%	99%	95%	95%
College-wide Fill Rate	89%	94%		

Note: Not all programs were assigned a specific fill-rate target as a part of the master planning process. If those cells are empty, no data was available at the time of this report.

	Fill Rate	Fill Rate
	2009-2010	2010-2011
Annual Fill Rate	96%	99%
College-wide Annual Fill Rate	90%	92%

4. Weekly Faculty Contact Hours (WFCH)

	2009-2010	2010-2011	EDMAN .
WFCH	309	327	
College-wide WFCH	9,625.88	9,517.87	

5. Full-Time Equivalent Students (FTES)

	2009-2010	2010-2011
FTES	300.38	329,40
College-wide FTES	8,627.81	9,236.93

6. Full-Time Equivalent Students/Weekly Faculty Contact Hours (FTES/WFCH)

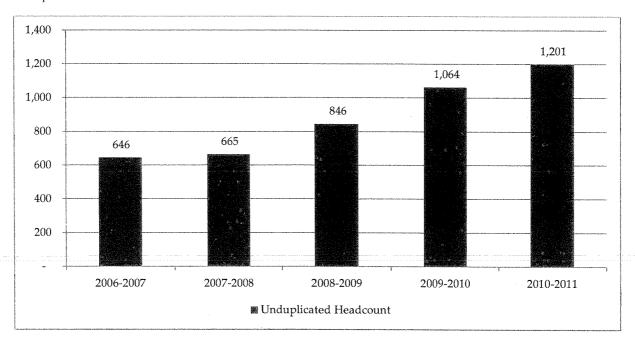
	2009-2010	2010-2011
FTES/WFCH	0.97	1.01
College-wide FTES/WFCH	0.90	0.97

7. Student Headcount (Unduplicated)

The student headcount is number of students taking at least one course within the discipline, excluding 292 and 299 courses.

	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
Unduplicated Headcount	646	665	846	1,064	1,201
College-Wide					
Unduplicated	14,922	15,465	17,024	18,786	19,414
Headcount					

Unduplicated Headcount

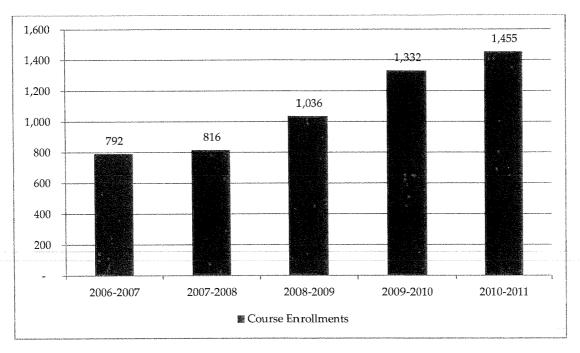


8. Total Course Enrollments

The count of total course enrollments is the total number of times students enroll in a class within the discipline.

	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
Course Enrollments	792	816	1,036	1,332	1,455
College-wide Enrollments	55,394	58,211	65,119	74,561	77,245

Total Enrollments

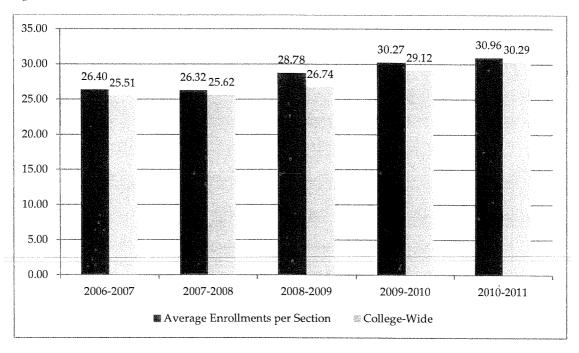


9. Average Enrollments per Section

	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
Average Enrollments per Section	26.40	26,32	28.78	30.27	30.96
Average Enrollments per Section College-wide	25.51	25.62	26.74	29.12	30.29

Note: WKEX and classes with 100+ students enrolled have been removed from the college-wide averages.

Average Enrollments Per Section



10. Number of Course Offerings per Academic Year

The number of course offerings jumped between 2008-2009 and 2009-2010 due to the modification of certain course catalog numbers to include the unit amounts.

	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
Course					
Offerings per	7	. 8	8	8	8
Academic Year					
Course					
Offerings	596	610	639	691	682
College-wide					

11. Number of Course Sections per Academic Year

	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
Course					
Sections per	30	31	36	44	47
Academic Year	and the second				
Course					
Sections	2,190	2,298	2,473	2,623	2,656
College-wide					

12. Number of Unduplicated Courses in Catalog

	2010-2011
Unduplicated Courses	11
College-wide Unduplicated Courses	909

13. Successful Course Completion

Within the credit program, successful course completion is the percentage of students who complete a course with a grade of "C" or better. In the Adult High School program, it is based on those students who complete a course with a grade of "D" or better.

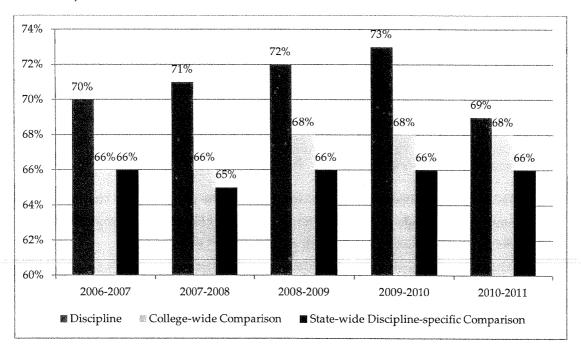
	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
Successful					
Course	70%	71%	72%	73%	69%
Completion					
College-wide					
Successful	66%	66%	68%	68%	68%
Course	00 /8	00 /8	00 70	00 76	00 70
Completion ²					
Statewide	- Partitayan P	na Transpirius pr	Mar geri		
Successful	66%	65%	66%	66%	66%
Course	300.70	30 <i>27</i> 0	0070		00.76
Completion				i na katalan da katala Banasari da katalan da	

Source: Statewide figures are from the California Community College's Chancellor's Office Datamart and are specific to the individual discipline.

Note: If cells are empty, it means that there were no comparable data available.

 1 Spring 2011 is not yet available from the Datamart. Statewide figure is based on Fall only 2 College-wide comparisons are made against only other appropriate credit/noncredit programs.

Successful Completion



14. Retention

For both credit and noncredit programs, retention is defined as the percentage of students who complete a course with any grade other than a W or MW.

	2006-2007	2007-2008	2008-2009	2009-2010	2010-20113
Student	82%	82%	82%	C29/	700/
Retention	<i>O⊈</i> √/0	OZ /0	OZ 70	83%	79%
College-					
wide	80%	81%	81%	82%	82%
Retention ⁴					
Statewide	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			e San San San San San San San San San San	
Student	79%	79%	80%	80%	80%
Retention					

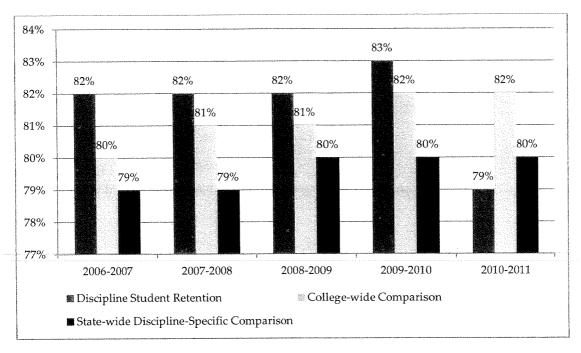
Source: Statewide figures are from the California Community College's Chancellor's Office Datamart and are specific to the individual discipline.

Note: If cells are empty, it means that there were no comparable data available.

⁴ College-wide comparisons are only made against other Credit/Noncredit courses.

 $^{^{3}\,}$ Spring 2011 is not yet available from the Datamart. Statewide figure is based on Fall only.

Retention



15. Average Units Attempted per Academic Year (Credit Programs Only)

The average units attempted refers to the total units enrolled by students taking at least one course within the discipline.

This data element is under construction.

16. Average Units Earned per Academic Year (Credit Programs Only)

The average units earned refers to the total units completed with a grade of "C" or better by students taking at least one course within the discipline.

This data element is under construction.

17. Annual Grade Point Average (Credit Programs Only)

What is the overall grade point average of students taking at least one course within the discipline?

This data element is under construction.

18. Average Cumulative Grade Point Average (Credit Programs Only)

This data element is under construction.

19. Number of Completed Student Learning Outcome (SLO) Assessment Cycles this Academic Year

For the latest SLO information, please refer to the SLO summary report dated 9-22-2011.

20. Degrees and Certificates Awarded

	2006- 2007	2007- 2008	2008- 2009	2009- 2010	2010- 2011
CHEM			***************************************	~~~	***************************************
Associate in Arts	7	4	9	7	2
Associate in Arts in University Studies: BioChemistry	3	1	4	1	1
Associate in Arts in University Studies: Chemical Engineering	g		1	2	
Associate in Arts in University Studies: Chemistry	3	1	3	2	
Associate in Arts in University Studies: Environmental Systems/Chemistry				1	1
Associate in Arts in University Studies: MAE - Chemical Engineering				1	
Associate in Arts in University Studies: Pharmacological	1	2	1		
Chemistry Grand Total	7	4	9	7	2

Degrees and certificate counts may differ from previous reports due to a change in the reporting period. All degrees are accurately reflected, but may be counted in a different year.

It should be noted that some degrees are included that are no longer offered by MiraCosta College. In these cases, students started the degree several years ago, and completed it within the current time-frame.

In addition to the list of degrees awarded above, degrees covering multiple disciplines are included in the next table. These may or may not be applicable to your program.

	2006-	2007-	2008-	2009-	2010
	2007	2008	2009	2010	2011
Arts and Humanities					
Associate in Arts in General Studies with an Area of				5	5
Emphasis in Arts and Humanities					
Associate in Arts in Liberal Arts with an Area of	이 시대로 나타하다 생활되면				59
Emphasis in Arts and Humanities					
Arts and Technology	and a second				
Associate in Arts in University Studies: Arts and		1	M 44		
Technology		,			
Certificate of Proficiency in Arts and Technology	1 - 38 (32 - 424 9	1	1		
Creative and Applied Art					
Associate in Arts in Liberal Arts with Area of					7
Emphasis in Creative and Applied Arts	Ay supple				
CSU-General Education		alaman nyaéta Kamangan			
Certificate of Achievement in CSU General Education					161
English and Literature	Section 4	1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Associate in Arts in University Studies: English and				1	5
Literature	Mag service est	et syksk			
General Studies/Liberal Arts	Berry Commencer		A. C.		
Associate in Arts in General Studies	95	104	81	66	29
Associate in Arts in University Studies: Liberal	6	4	7	9	2
Studies					
IGETC Certification	er ic — Green's control i secció	Same and the			
Certificate of Achievement in IGETC					117
Math and Economics					
Associate in Arts in University Studies: Joint Major in	ı	1	a /		
Math and Economics					
Math and Sciences	4 42 1				
Associate in Arts in Liberal Arts with Area of					27
Emphasis in Mathematics and Sciences	A STATE OF STATE		-		
Multicultural Studies					
Associate in Arts in Liberal Arts with an Area of		i Na Salah Sa	San San		2
Emphasis in Multicultural Studies	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
Social and Behavioral Sciences	2130804 31 1 5 E &				
Associate in Arts in General Studies: Area of				5	-6
			4		40
Associate in Arts in Liberal Arts Area of Emphasis in	1				49
Social and Behavioral Sciences Associate in Arts in Social/Behavioral Sciences	d saper				
	garan (M arka)				
Visual and Performing Arts	श्रो ५		9	E	
Associate in Arts in University Studies: Visual and Performing Arts	1		2	5	

21. Grade Distribution - 2010-2011

	A	В	С	CR	Р	D	F	NC	NP	I	IP	MW	W	Total Grades
CHEM	25%	26%	18%	0%	0%	5%	5%	0%	0%	-0%	0%	0%	21%	1455
CHEM100	25%	17%	21%	0%	0%	7%	5%	0%	0%	0%	0%	0%	25%	237
CHEM102	34%	28%	16%	0%	0%	5%	2%	0%	0%	0%	0%	0%	16%	58
CHEM104	30%	25%	8%	0%	0%	6%	4%	0%	0%	0%	0%	0%	28%	145
CHEM108	18%	22%	16%	0%	2%	4%	10%	0%	0%	0%	0%	0%	29%	385
CHEM110	27%	31%	19%	0%	0%	5%	3%	0%	0%	0%	0%	0%	15%	306
CHEM111	19%	31%	28%	0%	1%	5%	3%	0%	0%	0%	0%	0%	13%	154
CHEM210	40%	35%	13%	0%	0%	2%	0%	0%	0%	0%	0%	0%	10%	88
CHEM211	40%	29%	16%	0%	0%	2%	4%	0%	0%	0%	0%	0%	9%	82

22. Student Equity- 2010-2011

Pass Percentages by Age Category

	Pa	ass	In Progress	Fail		With	drew	To	otal
	n	%	n %	n	%	n	%	n	%
СНЕМ	1010	69%	1 0%	144	10%	300	21%	1455	100%
17 and Under	54	75%	0%	6	8%	12	17%	72	100%
18-24	655	69%	0%	102	11%	188	20%	945	100%
25-29	190	70%	0%	26	10%	54	20%	270	100%
30-34	51	65%	1 1%	8	10%	18	23%	78	100%
35-39	19	59%	0%		0%	13	41%	32	100%
40-44	19	73%	0%	1	4%	6	23%	26	100%
45-54	17	71%	0%	1.	4%	6	25%	24	100%
55-64	5	63%	0%		0%	3	38%	8	100%

Pass Percentages by Gender

	Pass	Pass		In Progress		Fail		Withdrew		otal
	n	%	n	%	n	%	n	%	n	%
CHEM	1,010	69%	1	0%	144	10%	300	21%	1455	100%
Female	526	68%		0%	84	11%	164	21%	774	100%
Male	484	71%	1	0%	60	9%	136	20%	681	100%

Pass Percentages by Ethnicity

and a significant specification and the second specification and the secon	Pas	ss	In Progress	Fa	il	With	drew	Tot	al
-	n	%	n º	o n	%	n	%	n	%
CHEM	1,010	69%	1 00	% 144	10%	300	21%	1,455	100%
African- American/Black	20	63%	0,	% 5	16%	7	22%	32	100%
American Indian/Alaskan Native	5	50%	0.	% 1	10%	4	40%	10	100%
Asian/Pac Island	141	75%	0	% 23	12%	24	13%	188	100%
Hispanic	141	59%	1 0	% 34	14%	61	26%	237	100%
Multiple	114	66%	0	% 23	13%	36	21%	173	100%
Other Non White/Unknown	56	78%	0	% 4	6%	12	17%	72	100%
White	533	72%	0	%54	7%	156	21%	743	100%_

Program Resources

1. Budget

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Dept Chair, Physical	Sciences	\$1,825,644	\$1,772,683	\$2,150,301	\$2,370,026	\$2,177,569
Astronomy		\$59,567	\$59,259	\$104,035	\$128,674	\$112,849
Chemistry		\$1,019,843	\$1,070,828	\$1,281,994	\$1,309,152	\$913,662
Earth Science		\$25,228	\$0	\$0	\$0	\$87,212
Geology	er de Tajikki	\$105,284	\$147,879	\$159,757	\$183,757	\$94,251
Oceanography		\$220,732	\$192,673	\$212,634	\$260,869	\$206,863
Physical Science		\$118,535	\$185,827	\$153,506	\$190,431	\$511,575
Physics		\$276,455	\$116,217	\$238,375	\$297,143	\$251,157

Program Personnel

1. Number of Classified Staff, Full and Part-Time

			2007	2008	2009	2010	2011
СНЕМ	1						2
Instructional Assistant I							
Full-Time				Mary Janes			
Brown							1
Instructional Associate							
Part-Time							
Thiyagarajah		g with Albert	en grand grand and a second				1

Note: The 2010-2011 academic year is the first year classified staff was identified specifically with the Chemistry program. There is also a generic "Physical Sciences" group that refers to multiple programs.

	2007	2008	2009	2010	2011
Physical Sciences	3	3	3	4	1
Instructional Assistant I					
Part-Time					
Brown				1	
Instructional Associate					
Full-Time					
Harrell		1	1	1	
Hernandez Jr	1	1	1	1	1
Thiyagarajah		1	, 1	1	

2. Full-Time Equivalent Faculty (FTEF)

amont found inches and control of the first	Fall 2009	Spring 2010	2009-2010 Total	Fall 2010	Spring 2011	2010-2011 Total
FTEF Generated	10.00	10.60	20.60	10.80	11.00	21.80

FTEF is normally calculated on a semester basis. When terms are added together to make up an academic year, adjustments need to be made so that a full-time faculty member is counted only once per year.

	2009-2010	2010-2011
Annualized FTEF	10.30	10.90

3. Reassigned Time (in FTEF)

description of the control of the co	2009-2010	2010-2011
Reassigned Time	0.39	0.56

4. Full-Time Equivalent Faculty, Part-Time/Full-Time - Reassigned Time Excluded

non automorphic teneral encourage en diventer à l'entre poè divinitation et le est en entre l'entre débendée d	2009-20)10	es presentition en fille son to the section of the little and the section of the	2010-201	1	\$234532PE446048037MSV-vectors/9586450009094915450053FE9701PEX
	Full-Time	Part-Time	% Part- Time	Full-Time	Part-Time	% Part- Time
FTEF	5.63	4.67	45%	5.16	5.74	53%

5. Full-Time Equivalent Faculty, Part-Time/Full-Time - Reassigned Time Included

way programme on class wat y production and the last was an administrative of the emolecular state of	2009-2010			2010-2011		
	Full-Time	Part-Time	% Part- Time	Full-Time	Part-Time	% Part- Time
FTEF	4.61	5.69	55%	3.94	6.96	64%

6. Untenured Faculty

To come have a very second company of a profession of the company		2009-2010	AMERICAN ACTION OF THE PROPERTY OF THE PROPERT	AND TO ART COMMON OF THE REAL PROPERTY WAS AND ARREST AND ART COMMON AND ART COMM	2010-2011	mandet em com security is a solvene endeutrou constructor sector a sour-residence en entre de construction en en
en en de la company de la comp	Total	Untenured	%	Total	Untenured	- %
	Faculty	Faculty	Untenured	Faculty	Faculty	Untenured
Faculty	5	1	20%	5	1	20%

Many faculty teach in more than one program (Humanities & Literature, for example), or are not attributed to a specific program.

Program Curriculum

1. Compliance with 6-Year Updates

Per the Office of Instruction, credit and noncredit programs are in compliance with all 6-year updates.

2. Number and Percent of Approved Program Catalog Online/Hybrid - Credit only

MALINAMENTO CONTRACTOR MANAGEMENTS OF THE CONTRACTOR OF T		Courses	College-wide Total
	Fotal Courses		909
2010-2011	Online	2	289
	% Online	18%	32%

3. Courses with California State University/University of California Transfer Articulations.

		Courses	College-wide Total
	Total Courses	11	909
2010-2011	Articulated Courses	11	724
	% Articulated	100%	80%

4. Proportion of Catalog Courses with a Lab Component - Credit Only

		Courses	College-wide Total
	Total Courses	11	909
2010-2011	Lab	9	397
	% with Lab	82%	44%

Program Students - 2010-2011

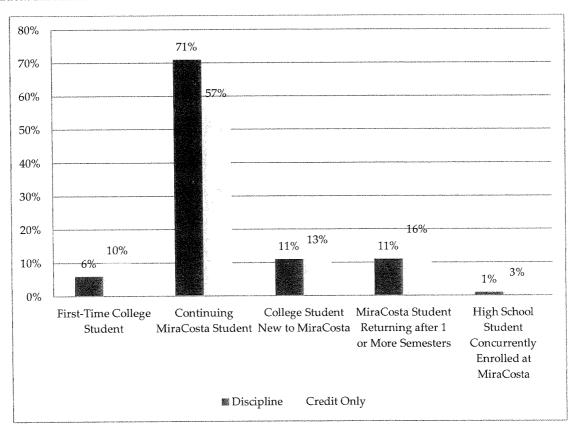
The following tables reflect the demographic characteristics of those students enrolled in at least one program course in Fall 2010 or Spring 2011. In cases where an enrollment status can change from one semester to the next, (i.e. educational goal, enrollment status, etc) the characteristic from the first enrolled semester is used.

1. Student Enrollment Status

	Discipline	Credit Only
First-Time College Student	6%	10%
Continuing MiraCosta Student	71%	57%
College Student New to MiraCosta	11%	13%
MiraCosta Student Returning after 1 or	11%	16%
more semesters	1170	10/0
High School Student Concurrently	4.0/	3%
Enrolled at MiraCosta	**************************************	370

Note: Due to the variability in the noncredit program, only credit disciplines will have comparative data.

Student Enrollment Status



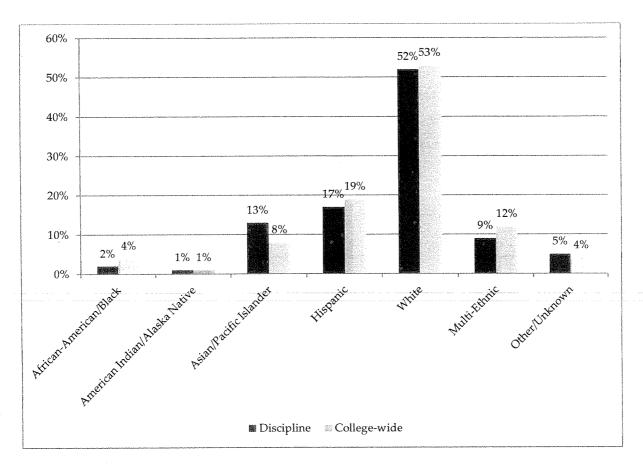
2. Student Goal Orientation

	Discipline	Credit Only
Obtain an associate degree and transfer to a 4-year	45%	39%
institution	*10/0	39.70
Transfer to a 4-year institution WITHOUT an associate's	26%	150/
degree	20 /0	15%
Obtain a two-year associate's degree WITHOUT transfer	4%	8%:
Obtain a two-year vocational degree WITHOUT transfer	1%	2%
Earn a vocational certificate WITHOUT transfer	0%	4%
Discover/formulate career interests, plans, goals	1%	2%
Prepare for a new career	5%	4%
Advance in current job/career (update job skills)	1%	3%
Maintain certificate or license (e.g. Nursing/Real Estate)	0%	1%
Educational Development (intellectual, cultural)	3%	4%
Improve basic skills in English, reading or math	1%	2%
Complete credits for high school diploma or GED	2%	1%
Undecided	6%	10%
To move from noncredit coursework to credit coursework	0%	0%
4-year college student taking courses to meet 4 year	πολ	TO -
college requirements	5%	5%
Unknown	0%	0%

Note: Due to the variability in the noncredit program, only credit disciplines will have comparative data.

3. Student Demographics - Ethnicity

	Discipline	Credit Only
African-American/Black	2%	4%
American Indian/Alaska N	· · · · ·	1%
Asian/Pacific Islander	13%	8%
Hispanic	17%	19%
White	52%	53%
Multi-Ethnic	9%	12%
Other/Unknown	5%	4%

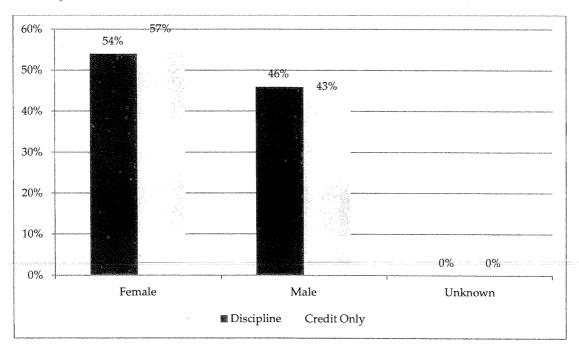


4. Student Demographics - Gender

taggeographic and a second and a	Discipline	Credit Only	Programma and American
Female	54%	57%	
Male	46%	43%	
Unknown		0%	

Note: Due to the variability in the noncredit program, only credit disciplines will have comparative data.

Enrollment by Gender



5. Student Demographics - Age

	Discipline	Credit Only
17 and Under	4%	4%
18-20	37%	30%
21-24	27%	25%
25-29	19%	15%
30-34	6%	7%
35-39	2%	4%
40-44		6%
45-54	2%	3%
55-64		1%
65 and Older	0%	0%

Note: Due to the variability in the noncredit program, only credit disciplines will have comparative data.

6. Student Education Attainment Level

	Discipline	Credit Only
Not a graduate of, and no longer enrolled in high school	2%	2%
Special Admit student currently enrolled in K-12	1%	3%
Currently enrolled in Adult School	0%	0%
Received High School Diploma	74%	70%
Passed the GED or Received a High		
School Certificate of	3%	5%
Equivalency/Completion		
Received a Certificate of California High School Proficiency	2%	1%
Foreign Secondary School	29/	30/
Diploma/Certificate of Graduation	ngo zariga za naga za n Naga za naga z	
Received an Associate's Degree	5%	5%
Received a Bachelor's degree or Higher	11%	12%
Unknown	0%	0%

Note: Due to the variability in the noncredit program, only credit disciplines will have comparative data.