

El Camino College

Degrees and Certificates Awarded

Recent Trends

EXECUTIVE SUMMARY

Degrees and certificates awarded at El Camino College (ECC) and El Camino College Compton Center continue to steadily increase, reaching a five-year peak in 2011-12.

At ECC, degrees and certificates increased by 21% and 18%, respectively. These increases yielded a total award count that exceeded 2,000 for the first time. Three Natural Sciences programs—Chemistry, Physical Science and Physics—more than tripled their degree counts in the last year alone. Of the 37 degrees awarded in these three programs, 89% were awarded to students in the MESA, ASEM and TRIO programs. As for certificates, Machine Tool Technology grew the most with award counts increasing by 400%.

The Compton Center awarded a total of 332 degrees and certificates. From the previous year, degrees and certificates increased by 9% and 100%, respectively. The Health Sciences and Athletics division experienced the highest one-year increase in degrees of 44% while Childhood Education certificate counts grew by 71%.

One year into the Mount St. Mary's College-ECC cooperative agreement, ECC achieved and surpassed its goal of awarding 27% of all STEM degree and certificates to Hispanic students. Instead, ECC Hispanic students earned 38% of all STEM awards.

TABLE 1. Degrees and Certificates Awarded (Five Years)

Campus	Award Type	2007-08	2008-09	2009-10	2010-11	2011-12	1-yr change (%)
Main/Torrance	Degrees	1,133	1,137	1,303	1,399	1,686	21%
	Certificates	356	442	403	414	489	18%
Compton Center	Degrees	106	150	157	211	230	9%
	Certificates	29	27	78	51	102	100%

*Awards reported as of MIS Data Submission in Summer/Fall. Actual campus figures may be slightly higher.

This report examines a five-year trend in degrees and certificates awarded at El Camino College (ECC) and El Camino College Compton Center.

TABLE 1. Degrees and Certificates Awarded (Five Years)

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DEGREES

At ECC, students were awarded in 58 different majors in nine different divisions. At the Compton Center, 23 different majors within eight divisions awarded degrees. Since 2007-08, ECC and the Compton Center have awarded an increasing number of degrees to students (Table 1). From 2010-11 to 2011-12, degree counts at ECC and the Compton Center increased by 21% and 9%, respectively. Trends in award counts may be attributed to more students earning multiple degrees predominantly within the same discipline in 2011-12. The percentage of students who earned multiple degrees increased 42%. Overall, this growth in degrees awarded may be attributed to concurrent efforts by counselors and various programs aimed at increasing graduation rates.

Main Campus Degrees

At ECC, the counts of degrees awarded have consistently increased throughout the years, peaking at 1,686 in 2011-12 (Chart 1). An outline by degree type reveals a recent increase in both A.A. and A.S. degrees (Table 2). The 5-year trend for A.A. and A.S. counts indicate an 88% and 6% growth, respectively. All divisions experienced a growth in degrees awarded last year, with the greatest increase of 51% in the Humanities division (Table 6). The division can attribute its success to a number of concerted efforts—the revision of programs’ minimum number of units required, faculty members’ efforts to sustain students’ interests in English, and the division’s continuous efforts to encourage degree and graduation application.

Compared to other majors, chemistry, physical science and physics grew considerably, with degree counts three to five times the previous year’s counts. The programs’ success may be a result of grant-related efforts, particularly those of MESA and TRIO STEM. Overall, degree growth appears to be outpacing enrollment growth. Degree counts increased by 49% during the

5-year period, while enrollments between 2004 and 2008 increased by 10% (not presented in Table 1).

TABLE 2. El Camino College (Main Torrance Campus) Degree Awards by Type

Degree Type	2007-08	2008-09	2009-10	2010-11	2011-12
Associate of Arts (A.A.)	595	643	797	903	1,118
Associate of Science (A.S.)	538	494	506	496	568
Total Associate Degrees	1,133	1,137	1,303	1,399	1,686

Compton Center Degrees

Degrees awarded to Compton Center students have steadily increased over the last five years (Chart 2). Similar to the trend seen at the Main Torrance Campus, A.A. counts have increased at a higher rate than A.S. counts (Table 3). From 2007-08 to 2011-12, the count of A.A. and A.S. degrees awarded grew by 144% and 73%, respectively. The Health Sciences and Athletics division experienced the most growth, with degree counts increasing by 44% in the last year alone (Table 8). Overall, degrees awarded increased during the 5-year period by 117%.

TABLE 3. ECC Compton Center Degree Awards by Type

Degree Type	2007-08	2008-09	2009-10	2010-11	2011-12
Associate of Arts (A.A.)	66	102	99	158	161
Associate of Science (A.S.)	40	48	58	53	69
Total Associate Degrees	106	150	157	211	230

CERTIFICATES

At ECC, a program can be offered as different certificates based on unit level. A certificate of achievement generally requires 18 or more units, but lower-unit (12-17.5) certificates of achievement are also offered with approval of the Chancellor’s Office. Certificates of accomplishment require less than 18 units and are not Chancellor’s Office approved. Because of this certificate scheme, students are permitted to receive multiple certificates in one program with different areas of emphasis. In the last 3 years, however, 11 programs have been inactivated. A grade point average (GPA) of 2.0 is required for all certificates, with Honors and High Honors certificates of achievement awarded for minimum GPAs of 3.0 and 3.5, respectively. For the purposes of this report, all certificates are treated equally.

Main Campus Certificates

As depicted in Chart 1, the number of awarded certificates increased and reached a peak in 2011-12. The Industry and Technology division experienced the most growth in 2011-12, with the

greatest increase in Machine Tool Technology (MTT) compared to all other majors (Table 7). The return of local unemployed students may have influenced the uptick in students pursuing certificates. Students' ability to earn more than one certificate in the same program also contributed to last year's growth. Over one-third of students earned multiple certificates in MTT. These phenomena combined with faculty members' increased efforts to ensure application completion may explain the program's success. Overall, the number of certificates awarded between 2007-08 and 2011-12 increased by 37%.

Compton Center Certificates

Following a brief decline in 2010-11, certificates awarded at Compton Center increased by 100% in 2011-12 (Table 9). Two particular programs that increased considerably were Childhood Education and Cosmetology. Childhood Education's one-year increase of 71% may be attributed to the efforts of faculty members, who inform and encourage eligible students to apply for a certificate. Over the last five years, certificate counts at Compton Center increased by 252%.

INITIATIVES

There are several initiatives currently active at ECC that focus on students' success in specific majors. These initiatives include Career and Technical Education (CTE); Science, Technology, Engineering and Mathematics (STEM); and Science, Engineering and Mathematics (SEM). CTE programs are technical or career oriented in nature, ranging from Administration of Justice to Welding. Some CTE programs, mostly in the technical area, are also part of the STEM initiative. STEM includes three divisions— Industry and Technology, Mathematical Sciences, and Natural Sciences. SEM includes only Mathematical and Natural Sciences. The primary difference between STEM and SEM is the latter's focus on transfer programs as opposed to technical ones that include options for certificates. With the exception of two majors (Computer Science and Environmental Horticulture), SEM and CTE majors are mutually exclusive. Currently, the Compton Center has only CTE initiatives. Tables 4 and 5 outline the number of degrees and certificates awarded in CTE, STEM and SEM majors at ECC and the Compton Center.

At the two El Camino College locations, award counts have increased over the last five years. From 2010-11 to 2011-12, STEM and SEM increases were greater than CTE gains at the Torrance location. As mentioned previously, this may be attributed to MESA-related efforts. At the Compton Center, CTE and STEM counts experienced a greater percentage increase compared to SEM. Despite the varied increases among the three initiatives, CTE programs still attract the majority of award seekers.

TABLE 4. El Camino College (Main Torrance Campus) – Degrees and Certificates Awarded by Initiative

Initiative	Award Type	2007-08	2008-09	2009-10	2010-11	2011-12	1-yr change (%)
CTE	Degrees	446	445	462	475	513	8%
	Certificates	352	432	387	403	481	19%
STEM	Degrees	63	54	73	100	152	52%
	Certificates	31	21	15	20	42	110%
SEM	Degrees	46	48	63	91	140	54%
	Certificates	1	2	2	0	0	0%

TABLE 5. ECC Compton Center Degrees and Certificates Awarded by Initiative

Initiative	Award Type	2007-08	2008-09	2009-10	2010-11	2011-12	1-yr change (%)
CTE	Degrees	42	62	81	88	95	8%
	Certificates	29	27	77	50	102	104%
STEM	Degrees	0	1	2	2	4	100%
	Certificates	0	0	1	1	1	0%
SEM	Degrees	0	1	2	2	3	50%
	Certificates	0	0	0	0	0	0%

CONCLUSION

Recent patterns in degrees and certificates awarded provide insight regarding students’ interests at the two ECC locations. Despite lower enrollments between 2004-05 and 2006-07, degrees and certificates awarded at ECC and the Compton Center have increased markedly during the last 5 years. The growth in enrollment starting in 2007-08 may have influenced an upswing in future award counts as these past cohorts approach the median time to completion. Additionally, the efforts of faculty and staff members through college initiatives have recently expanded, with the intent being to increase graduation and transfer rates, particularly among Latino students. ECC and Compton Center students continue to earn degrees and certificates at an increasing rate as a result of previous enrollment patterns and various initiatives’ efforts.

APPENDIX A – El Camino College (Main Torrance Campus)

CHART 1. El Camino College Growth Trends in Degrees and Certificates

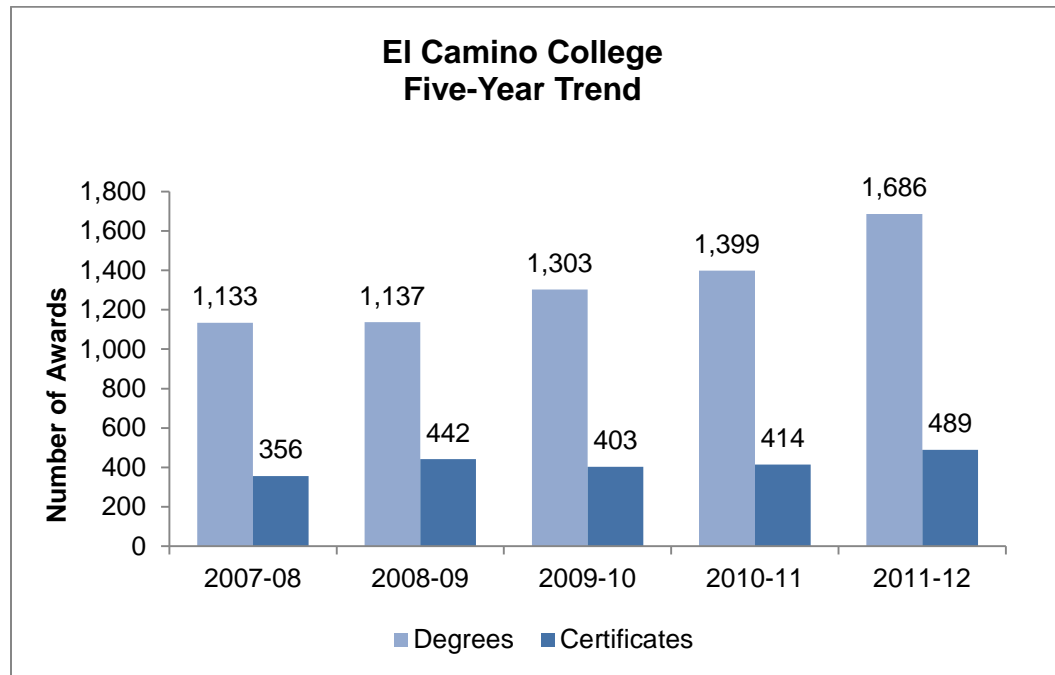


TABLE 6. El Camino College Degrees Awarded by Major

Division	Major	2007-08	2008-09	2009-10	2010-11	2011-12	5-yr change
Behavioral and Social Sciences	Anthropology	1	5	3	5	3	
	Childhood Education	33	38	24	38	39	
	Economics	7	22	38	25	24	
	History	11	8	14	7	11	
	Philosophy	2	1	2		1	
	Political Science	6	8	2	7	2	
	Psychology	10	19	17	15	17	
	Sociology	22	26	38	34	46	
Total Behavioral and Social Sciences		92	127	138	131	143	55%
Business	Accounting	13	16	11	9	12	
	Business Administration	100	101	121	134	137	
	Business Management	19	12	20	19	22	
	Computer Information Systems	5	8	7	13	10	
	Marketing	3	6	6	3	7	
	Office Administration	3	4	2	3	11	
	Paralegal Studies	20	6	12	15	15	
	Real Estate	7	5	4	2	1	
Total Business		170	158	183	198	215	26%

Division	Major	2007-08	2008-09	2009-10	2010-11	2011-12	5-yr change
Fine Arts	Art (Various Majors)	25	30	37	26	22	
	Dance	1	3	2	2	1	
	Film/Video	1	9	8	8	13	
	Music	5		6	6	9	
	Photography	5	1	8	7	8	
	Communication Studies	5	7	8	5	9	
	Theatre	1	4	4	2	3	
Total Fine Arts		43	54	73	56	65	51%
Health Sciences and Athletics	Nursing	97	116	107	59	63	
	Physical Education	2	3	1	1	2	
	Radiologic Tech	18	15	15	9	15	
	Recreation	2	1			1	
	Respiratory Care	13	15	21	19	16	
	Sign Language/Interpreter Tng.	21	13	9	13	13	
Total Health Sciences and Athletics		153	163	153	101	110	-28%
Humanities	English	13	17	22	24	35	
	French	1	2	4	2	5	
	Japanese	1	3	5		7	
	Journalism	1	2		5	2	
	Spanish	2	5	2	6	7	
Total Humanities		18	29	33	37	56	211%
General Studies	General Studies	189	229	188	77	58	
	Arts and Humanities			91	154	218	
	Biological and Physical Sciences			23	74	145	
	Communication Studies			11	17	2	
	Culture and Communication				14	30	
	Fine and Applied Arts			7	14	21	
	Kinesiology and Wellness				2	13	
	Social and Behavioral Sciences			95	194	244	
	Liberal Studies	16	48	53	43	43	
	Transfer Studies	304	182	86	48	35	
Total General Studies		509	459	554	637	809	59%

Division	Major	2007-08	2008-09	2009-10	2010-11	2011-12	5-yr change
Industry and Technology	Administration of Justice	20	23	22	34	32	
	Air Conditioning & Refrig.	9	3	9	4	15	
	Architecture	7	11	4	22	16	
	Auto. Collision Repair/Paint.		2		2	5	
	Automotive Technology	4	4	8	8	6	
	Computer Aided Design/Drafting	5		5	2	6	
	Construction Technology	1	8	4	7	1	
	Cosmetology	4	1	6	1	2	
	Electronics/Comp Hardware Tech	7	3	4	5	1	
	Fashion	4	6	4	4	2	
	Fire & Emergency Technology	24	24	22	26	38	
	Industrial Technology			1	1		
	Machine Tool Technology	5	3	1	1	4	
	Manufacturing Technology				1	1	
	Welding	3	2	4	2		
Total Industry and Technology		93	90	94	120	129	39%
Mathematics	Computer Science	3	1	1	5	2	
	Mathematics	9	12	9	31	38	
	Pre-Engineering	8	11	11	12	22	
Total Mathematics		20	24	21	48	62	210%
Natural Sciences	Biology	10	6	8	13	12	
	Chemistry	1	5	4	4	13	
	Environmental Horticulture	2	1	3			
	General Science	7	7	20	20	28	
	Geography	1		1		1	
	Physical Science	2	3	1	3	10	
	Physics	3	2	5	3	14	
	Pre-Dentistry or Medicine	9	9	12	28	19	
Total Natural Sciences		35	33	54	71	97	177%
All Degrees Awarded		1,133	1,137	1,303	1,399	1,686	49%

Source: CCC Chancellor's Office and ECC Admissions & Records

TABLE 7. El Camino College Certificates Awarded by Major

Division	Major	2007-08	2008-09	2009-10	2010-11	2011-12	5-yr change
Behav & Soc Sci	Childhood Education	12	2	34	78	99	
Total Behavioral and Social Sciences		12	2	34	78	99	725%
Business	Accounting	11	11	12	13	16	
	Business Management	13	8	9	11	8	
	Computer Information Systems	3	2	1	2	0	
	Marketing	13	8	10	7	10	
	Office Administration	2	8	8	5	7	
	Paralegal Studies	24	7	15	25	27	
	Real Estate	3	3	3	2	1	
Total Business		69	47	58	65	69	0%
Fine Arts	Art (Various Majors)			1	2	2	
	Digital Arts	3	8	5	6	2	
	Film/Video	3	5	5	5	3	
	Photography			1	3	4	
Total Fine Arts		6	13	12	16	11	83%
Health Sciences and Athletics	Radiologic Tech		18	15	11	9	
	Respiratory Care	13	15	20	19	16	
	Sign Language/Interpreter Tng.	19	14	15	16	14	
Total Health Sciences and Athletics		32	47	50	46	39	22%
Humanities	Journalism				4	2	
Total Humanities		0	0	0	4	2	N/A
Industry and Technology	Administration of Justice	14	13	9	19	10	
	Air Conditioning & Refrig.	36	59	41	52	54	
	Architecture		5	2	15	13	
	Auto. Collision Repair/Paint.		3	6	13	11	
	Automotive Technology	12	26	15	14	27	
	Computer Aided Design/Drafting	4	1	3	4	5	
	Cabinet & Fine Woodworking			1			
	Construction Technology	4	5	6	4	8	
	Cosmetology	36	45	50	28	49	
	Electronics/Comp Hardware Tech	13	10	1	10	3	
	Fashion Design and Production	1	5	1	2	2	
	Fashion Merchandising		1				
	Fire & Emergency Technology	35	39	26	5	27	
	Fire & Emergency Tech.-P Tech	63	104	67	28	24	
	Machine Tool Technology	10	7	3	6	30	
	Manufacturing Technology					2	
Welding	5	7	10	5	2		
Total Industry and Technology		233	330	235	205	267	15%
Mathematics	Computer Science	1	2	2			
Total Mathematics		1	2	2	0	0	-100%
Natural Sciences	Environmental Horticulture	3	1	6		2	
Total Natural Sciences		3	1	6	0	2	-33%
All Certificates Awarded		356	442	403	414	489	37%

Source: CCC Chancellor's Office and ECC Admissions & Records

APPENDIX B – El Camino College Compton Center

CHART 2. ECC Compton Center Growth Trends in Degrees and Certificates

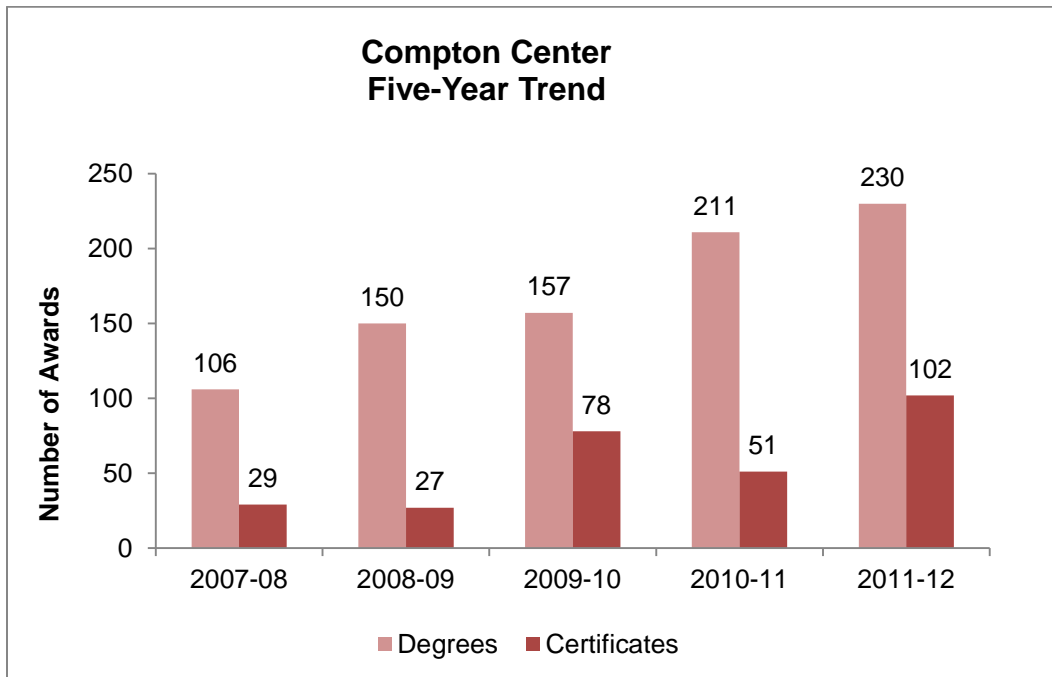


TABLE 8. ECC Compton Center Degrees Awarded by Major

Division	Major	2007-08	2008-09	2009-10	2010-11	2011-12	5-yr change
Behavioral and Social Sciences	Anthropology			1			
	Childhood Education		15	23	29	19	
	History		1		1		
	Political Science			1	3		
	Psychology	1		2	1	4	
	Sociology	1	1	1	10	15	
Total Behavioral and Social Sciences		2	17	28	44	38	1800%
Business	Business Management	1	5	5	14	12	
	Computer Information Systems				1	1	
	Marketing					2	
	Office Administration					1	
	Real Estate	1	3		1	2	
Total Business		2	8	5	16	18	800%
Fine Arts	Dance				1	1	
	Film/Video		1			1	
	Speech Communication		1				
Total Fine Arts		0	2	0	1	2	

Division	Major	2007-08	2008-09	2009-10	2010-11	2011-12	5-yr change
Health Sciences and Athletics	Nursing	35	34	47	30	45	
	Physical Education				1	1	
	Respiratory Care			1			
	Sign Language/Interpreter Tng.				1		
Total Health Sciences and Athletics		35	34	48	32	46	31%
Humanities	English					1	
	Spanish			1		1	
Total Humanities		0	0	1	0	2	
General Studies	General Studies	52	73	43	33	17	
	Arts and Humanities			12	28	44	
	Biological and Physical Sciences				8	9	
	Communication Studies						
	Culture and Communication						
	Fine and Applied Arts						
	Kinesiology and Wellness						
	Social and Behavioral Sciences			8	23	30	
	Liberal Studies		4	4	6	7	
	Transfer Studies	10	7	1	6	2	
Total General Studies		62	84	68	104	109	76%
Industry and Technology	Administration of Justice	4	1	3	6	7	
	Air Conditioning & Refrig.					1	
	Auto. Collision Repair/Paint.	1			1		
	Automotive Technology				1	1	
	Cosmetology				1		
	Fire & Emergency Tech.-P Tech			1	2		
	Machine Tool Technology					1	
	Welding		3	1	1	2	
Total Industry and Technology		5	4	5	12	12	140%
Natural Sciences	Chemistry		1				
	General Science				1	1	
	Pre-Dentistry or Medicine			2	1	2	
Total Natural Sciences		0	1	2	2	3	
All Degrees Awarded		106	150	157	211	230	117%

Source: CCC Chancellor's Office and ECC Admissions & Records

TABLE 9. ECC Compton Center Certificates Awarded by Major

Division	Major	2007-08	2008-09	2009-10	2010-11	2011-12	5-yr change
Behav & Soc Sci	Childhood Education	18	15	53	24	41	
Total Behavioral and Social Sciences		18	15	53	24	41	128%
Business	Accounting			1			
	Business Administration			1			
	Business Management		1			4	
	Computer Information Systems		1				
	Marketing		1	1	1	2	
	Office Administration		2	5		1	
	Real Estate	1	1	1		2	
Total Business		1	6	9	1	9	800%
Fine Arts	Music			1	1		
Total Fine Arts		0	0	1	1	0	
Health Science and Athletics	Respiratory Care			1			
	Sign Language/Interpreter Tng.			1			
Total Health Sciences and Athletics		0	0	2	0	0	
Industry and Technology	Administration of Justice	5			4	5	
	Air Conditioning & Refrig.				12	1	
	Architecture			1			
	Auto. Collision Repair/Paint.				1	1	
	Automotive Technology	3	3	2	5	7	
	Computer Aided Design/Drafting				1		
	Cosmetology		1			31	
	Fire & Emergency Technology					1	
	Machine Tool Technology			1		1	
Welding	2	2	9	2	5		
Total Industry and Technology		10	6	13	25	52	420%
All Certificates Awarded		29	27	78	51	102	252%

Source: CCC Chancellor's Office and ECC Admissions & Records