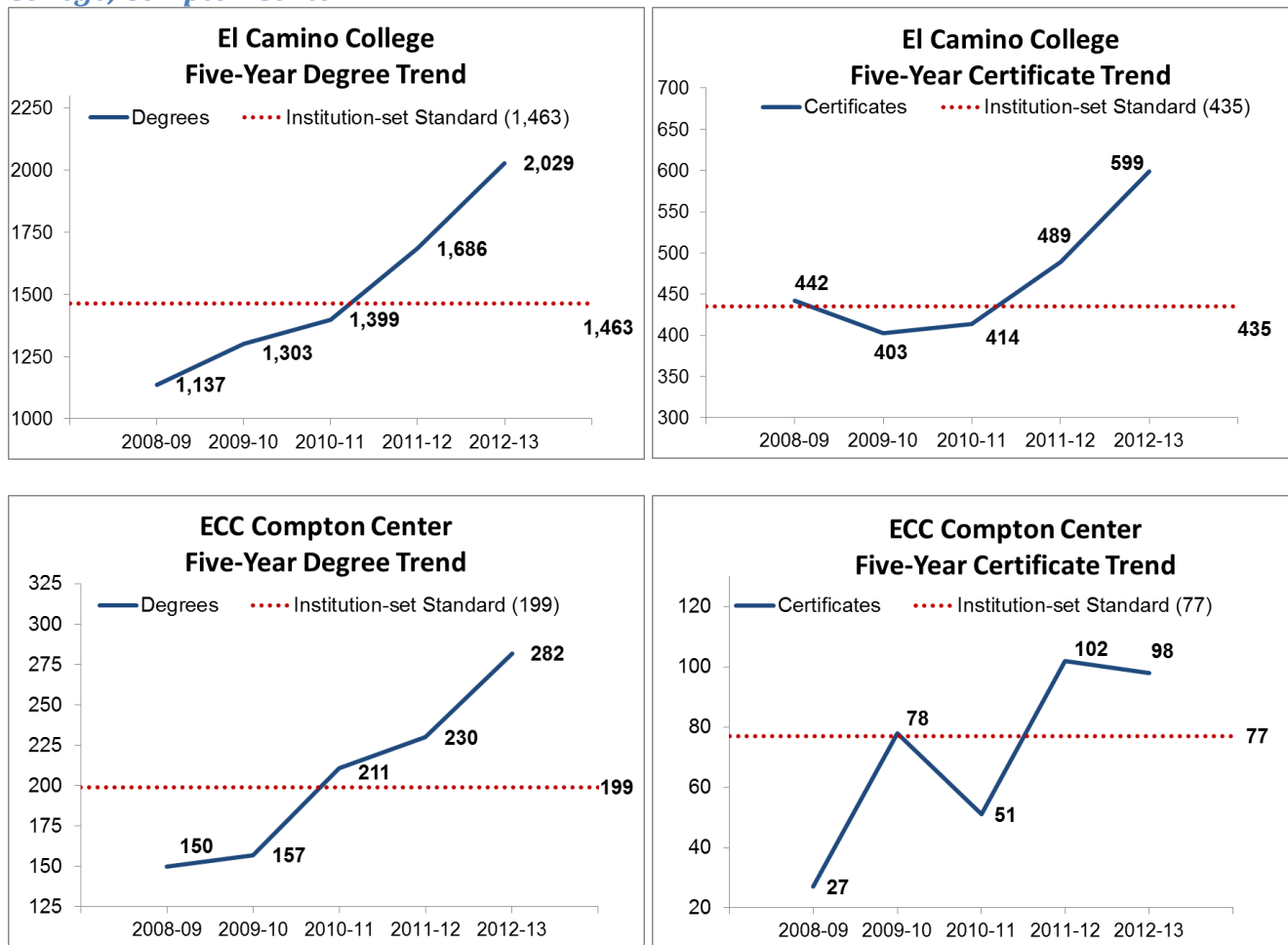


# El Camino College Degrees and Certificates Awarded Recent Trends

## EXECUTIVE SUMMARY

The following report highlights trends in degrees and certificates awarded for the years 2008-09 to 2012-13. As a whole, student awards continued to steadily increase at both El Camino College (ECC) and ECC Compton Center, reaching a five-year peak in 2012-13.

**Figure 1. Five-year Degree and Certificate Trends for El Camino College and El Camino College, Compton Center**



At ECC, degrees and certificates increased by 20% and 22%, respectively. These increases yielded a total award count that exceeded 2,600 for the first time. Growth was fueled in part due to the first graduating cohorts of Associate of Arts for Transfer (A.A.-T) students, as well as strong growth in the Science, Technology, Engineering, and Mathematics (STEM) majors. There were 79 degrees earned across three different A.A.-T majors (Communications, Psychology, and Sociology). Additionally,

strong increases were seen among STEM degrees and certificates, with past-year growth of 79% and 81% respectively.

Compton Center awarded a total of 380 degrees and certificates. From the previous year, degrees increased 23%, and certificates decreased 4%. The Natural Sciences division experienced the greatest growth, increasing by 200% relative to last year. Similar to ECC, Compton Center saw large growth in the number of STEM degrees and certificates awarded, with past-year growth of 300% and 900%, respectively. There were 10 A.A.-T degrees awarded at Compton Center.

At both ECC and Compton Center, the most common ethnicity of those awarded degrees was Latino. The same was true among those awarded certificates at ECC. However, the most common ethnicity among certificate-earners at Compton Center was African American.

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)**

Location	Award Type	2008-09*	2009-10*	2010-11*	2011-12*	2012-13	1-yr change (%)
El Camino College	Degrees	1,137	1,303	1,399	1,686	2,029	20%
	Certificates	442	403	414	489	599	22%
Compton Center	Degrees	150	157	211	230	282	23%
	Certificates	27	78	51	102	98	-4%
Total ECC	Degrees	1,287	1,460	1,610	1,916	2,311	21%
	Certificates	469	481	465	591	697	18%

\*Awards reported as of MIS Data Submission in Summer/Fall. Actual campus figures may be slightly higher. Source: CCC Chancellor’s office & ECC Admissions & Records.

## DEGREES OVERVIEW

At ECC, degrees were awarded in 70 different majors within 8 different divisions. At ECC Compton Center, 36 different majors within 8 divisions awarded degrees. Since 2008-09, ECC and Compton Center have awarded an increasing number of degrees to students (Table 1). From 2011-12 to 2012-13, degree counts at ECC and Compton Center increased by 20% and 23% respectively.

This is the first year that the new Associate of Arts – Transfer (A.A.-T) degrees have been awarded. Students who earn an A.A.-T degree are given a clear pathway to a California State University (CSU) major and baccalaureate degree. These students are also given priority admission consideration to a CSU campus, though the degree does not guarantee admission to a specific campus or program. If the CSU deems the A.A.-T degree to be similar to a program at that CSU, then admitted students will be able to complete the required units to earn a bachelor’s degree within 60 units. Though ECC currently offers several A.A.-T and Associate of Science – Transfer (A.S.-T) degrees, most of these degrees are in their nascence. Only Communication Studies, Psychology, and Sociology (all A.A.-T) have existed long enough to yield graduates.

## CERTIFICATES OVERVIEW

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. Because of this certificate scheme, students are permitted to receive multiple certificates in one program with different areas of emphasis. 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. Certificates of achievement can

also be split into short-term certificates (those that required 18 to 29.5 units), or long-term certificates (those that required 30 to 59.5 units).

## **INITIATIVES OVERVIEW (CTE, STEM, SEM)**

There are several initiatives currently active at ECC that focus on students' success in specific majors. These initiatives include Career and Technical Education (CTE); 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 comprises 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 programs that include options for certificates. Currently, Compton Center has only CTE initiatives. For the purposes of this report, majors were classified as STEM via the 2012 Department of Homeland Security STEM list. This list is tied directly to the federal classification of instructional program (CIP) codes, and allows for direct comparison of ECC and Compton Center to other institutions.

## **EXAMINATION OF DEGREES AND CERTIFICATES BY LOCATION**

In the following sections, a closer examination is given to the degrees and certificates earned at each location.

### **El Camino College**

#### **ECC Degrees**

At ECC, the counts of degrees awarded have consistently increased throughout the past 5 years, with 2,029 degrees in 2012-13 (Figure 2). An outline by degree type reveals an increase in A.A. and A.S. degrees, and the addition of the new A.A.-T degrees (Table 2). The 5-year trends for A.A. and A.S. degrees indicate 88% and 50% growth, respectively. This increase seems driven primarily from the large increase of A.S. degrees, and the first cohort of students graduating with A.A.-T degrees. The breakout for A.A.-T degrees is shown in Table 6. Compared to 2011-12, the number of A.A. degrees awarded in 2012-13 increased by 8%. Over the same time frame, the number of A.S. degrees increased by 30%.

The majority of those who earned a degree from ECC were among the ages 20 to 24 (Table 7) and female (Table 8), and the most common ethnicity was Latino (Table 9). The proportion of students receiving A.A.-T degrees who are Latino (56%) is much greater than the percentage of those earning an A.A. (40%) or A.S. (34%) degree (Table 10). Students earning A.A.-T degrees are also younger than those earning A.A. or A.S. degrees. Students aged 24 and below comprised 87% of those earning A.A.-T degrees, compared to only 67% and 57% for A.A. and A.S. degrees, respectively (Table 11). Women earned the majority of A.A., A.A.-T, and A.S. degrees (Table 12).

Over the past year, all divisions experienced growth in the total number of degrees awarded (Table 16), with the greatest increase of 65% in Mathematics followed by 51% for the Natural Sciences. From 2011-12 to 2012-13, Biology, Chemistry, General Science, Physical Science, and Physics all saw growth of over 50%. These dramatic increases may be tied to grant-related efforts, particularly those of the

Graduation Initiative, the Math, Engineering, Science Achievement (MESA) center, as well as Department of Education STEM grants.

**TABLE 2. El Camino College Degree Awards by Type**

Degree Type	2008-09	2009-10	2010-11	2011-12	2012-13
Associate of Arts (A.A.)	643	797	903	1,118	1,210
Associate of Arts - Transfer (A.A.-T)	--	--	--	--	79
Associate of Science (A.S.)	494	506	496	568	740
Total Associate Degrees	1,137	1,303	1,399	1,686	2,029

### ECC Certificates

As depicted in Figure 2 (see Appendix), the number of awarded certificates increased 22% from the 2011-12 to 2012-13 academic years, with 599 certificates awarded in 2012-13. For the 2012-13 academic year there were more short-term than long-term certificates awarded, 345 and 254, respectively. As can be seen in Table 17, Natural Sciences had the greatest growth, increasing the number of certificates by 50% (from 2 to 3). Among divisions with at least 10 certificates awarded, Behavioral and Social Sciences had the greatest growth over the past year (33%; from 99 to 132). Overall, the number of certificates awarded between 2008-09 and 2012-13 increased by 36%. Whereas the majority of degree earners at ECC were between the ages of 20 to 24, the majority of certificate earners were older, between the ages of 25 to 49 (Table 7).

### ECC Initiatives

As seen in Table 3, initiative-related award counts have increased over the last five years at ECC. From 2011-12 to 2012-13, CTE, STEM, and SEM initiatives saw growth. The growth in STEM and SEM-related fields has been high, with one-year growth ranging between 76% and 81%, and five-year growth ranging between 262% and 413%. Despite the varied increases among the three initiatives, CTE programs continue to grant the majority of awards.

**TABLE 3. El Camino College – Degrees and Certificates Awarded by Initiative**

Initiative	Award Type	2008-09	2009-10	2010-11	2011-12	2012-13	1-yr change (%)
CTE	Degrees	445	462	475	513	596	16%
	Certificates	432	387	403	481	551	15%
STEM	Degrees	54	73	100	152	272	79%
	Certificates	21	15	20	42	76	81%
SEM	Degrees	48	63	91	140	246	76%
	Certificates	2	2	0	0	2	N/A

### ***Career and Technical Education***

Among CTE degree- and certificate-earners, Latinos were the most common ethnicity at ECC (Table 13). The majority of those who earned CTE degrees or certificates were between the ages of 25 and 49 years old (Table 14). More females than males earned CTE degrees, but more males than females earned CTE certificates (Table 15).

### ***Science, Technology, Engineering, and Mathematics***

The majority of those who earned STEM degrees at ECC were between 20 and 24 years old, however the majority of STEM certificate-earners at ECC were between 25 and 29 years old. The most common ethnicity for STEM degree- and certificate-earners was Latino. The majority of STEM degrees and certificates were earned by males.

### ***Science, Engineering, and Mathematics***

Similar to the characteristics among STEM degree-earners, the majority of SEM degree earners at ECC were between 20 and 24 years old, the most common ethnicity among degree-earners was Latino, and most SEM degree-earners were men.

## **ECC Compton Center**

### **Compton Center Degrees**

Degrees awarded to ECC Compton Center students have steadily increased over the last five years (Appendix, Figure 3). Similar to the trend seen at ECC, A.S. degrees have increased at a higher rate than A.A. degrees, though there continue to be more A.A. than A.S. degrees awarded (Table 4). From 2008-09 to 2012-13, the count of A.A. and A.S. degrees awarded grew by 80% and 83%, respectively. The breakout for A.A.-T degrees is shown in Table 18.

The majority of those who earned a degree from Compton Center were between the ages of 25 and 49 (51%) and female (68%), and the most common ethnicity was Latino (49%). This, and some subsequent information, is not presented in the Appendix given that cell sizes were too low for too many categories.

Over the past year, growth varied across divisions (Table 19). Natural Sciences had the greatest growth, increasing the number of degrees by 200% (from 3 to 9). Humanities had the greatest decline, decreasing the number of degrees by 50% (from 2 to 1). Among divisions with more than 10 degrees awarded, Industry and Technology had the greatest growth over the past year in the number of degrees awarded (100%; from 12 to 24).

**TABLE 4. Compton Center Degree Awards by Type**

Degree Type	2008-09	2009-10	2010-11	2011-12	2012-13
Associate of Arts (A.A.)	102	99	158	161	184
Associate of Arts - Transfer (A.A.-T)	--	--	--	--	10
Associate of Science (A.S.)	48	58	53	69	88
Total Associate Degrees	150	157	211	230	282

### Compton Center Certificates

As depicted in Figure 3, the number of awarded certificates decreased slightly (4%) from the 2011-12 to 2012-13 academic years, with 98 certificates awarded in 2012-13. For the 2012-13 academic year there were more short-term than long-term certificates awarded, 72 and 26, respectively. As can be seen in Table 20, Behavioral and Social Sciences had the greatest increase in certificates awarded over the past year (10%; from 41 to 45). Overall, the number of certificates awarded between 2008-09 and 2012-13 increased by 263%. The majority of certificate earners were between the ages of 25 to 49 (58%), female (64%), and African American (54%).

### Compton Center Initiatives

As seen in Table 5, initiative-related award counts have increased over the last five years at Compton Center. From 2011-12 to 2012-13, CTE, STEM, and SEM initiative saw growth with one exception. The number of CTE certificates awarded decreased by 13%. However, CTE certificates at Compton Center increased 78% relative to two years ago, and 230% over the past five years. The growth in STEM and SEM-related fields has been especially high at Compton Center, with one-year growth ranging between 300% and 900%, and five-year growth ranging between 1300% and 1500%. Despite the varied increases among the three initiatives, CTE programs continue to grant the majority of awards.

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

Initiative	Award Type	2008-09	2009-10	2010-11	2011-12	2012-13	1-yr change (%)
CTE	Degrees	62	81	88	95	106	12%
	Certificates	27	77	50	102	89	-13%
STEM	Degrees	1	2	2	4	16	300%
	Certificates	0	1	1	1	10	900%
SEM	Degrees	1	2	2	3	14	367%
	Certificates	0	0	0	0	0	N/A

### Career and Technical Education

The majority of those who earned CTE degrees or certificates at Compton Center were between the ages of 25 and 49 years old (71% of degrees, and 58% of certificates). Whereas the most common ethnicity of degree-earners was Latino (42%), more than half of all CTE certificate-earners were African Americans (53%). Females earned the majority of both CTE degrees and certificates (73% and 65%, respectively).

### Science, Technology, Engineering, and Mathematics

At Compton Center, 63% of STEM degree-earners and 50% of certificate-earners were ages 25 to 49. The most common ethnicity for STEM degree-earners was Latino (75%), however, 80% of Compton Center STEM certificates were awarded to African American students. Similar to ECC, the majority of STEM degrees and certificates were earned by males (88% and 100%, respectively).

### *Science, Engineering, and Mathematics*

Similar to the characteristics among STEM degree-earners, the majority of SEM degree earners were between 25 and 49 years old (57%). The most common ethnicity among degree-earners was Latino (57%). Most SEM degree-earners were men (86%). No SEM certificates were earned at Compton Center.

## **CONCLUSION**

Recent patterns in degrees and certificates awarded provide insight regarding students' interests at the two ECC locations. Overall, degrees and certificates have continued to rise at ECC. Whereas degrees rose at Compton Center, certificates fell slightly. STEM degrees and certificates rose dramatically at both locations, with growth ranging between 79% and 900%. The division of Behavioral and Social Sciences awarded the most degrees at both ECC and Compton Center. The division of Industry and Technology awarded the most certificates at both locations. The growth in enrollment which started 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. Increasing rates of degrees and certificates may be attributed to previous enrollment patterns and various initiatives' efforts.



## APPENDIX A – El Camino College

Figure 2. El Camino College Growth Trends in Degrees and Certificates

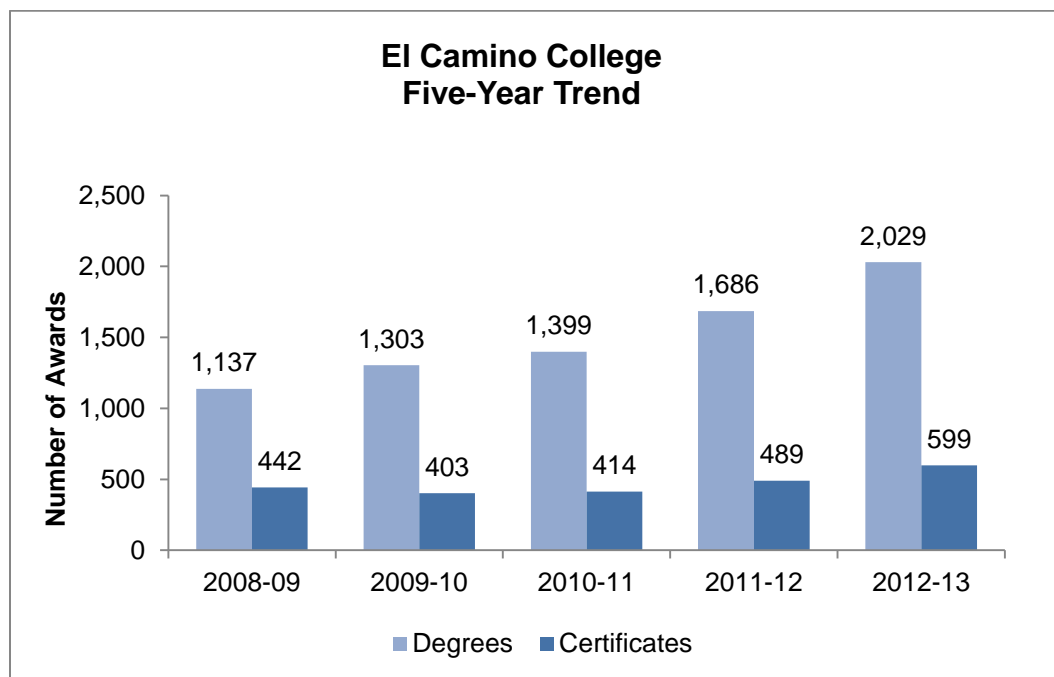


Table 6. ECC Transfer Degrees by Major, 2012-13 Academic Year

Degree Type	2012-13
Associate of Arts Transfer (A.A.-T)	
Communication Studies - T	17
Psychology - T	31
Sociology - T	31
Total Associate Transfer Degrees	79

Table 7. ECC Degrees and Certificates by Age Group, 2012-13 Academic Year

Award Type	Age in years								Total
	Under 20		20 to 24		25 to 49		Over 49		
	n	%	n	%	n	%	n	%	
El Camino College Degrees	79	4%	1,218	60%	689	34%	43	2%	2,029
El Camino College Certificates	12	2%	215	36%	330	55%	42	7%	599

**Table 8. ECC Degrees and Certificates by Gender, 2012-13 Academic Year**

	Award Type	Males		Females		Total
		n	%	n	%	
El Camino College	Degrees	854	42%	1,175	58%	2,029
	Certificates	316	53%	283	47%	599

**Table 9. ECC Degrees and Certificates by Ethnicity, 2012-13 Academic Year**

Ethnic Group	El Camino College			
	Degrees		Certificates	
	n	%	n	%
<b>Asian</b>	487	24%	98	16%
<b>African American</b>	204	10%	93	16%
<b>Latinos</b>	777	38%	232	39%
<b>American Indian</b>	8	0%	***	***
<b>Pacific Islander</b>	13	1%	***	***
<b>White</b>	385	19%	134	22%
<b>Two or More</b>	70	3%	11	2%
<b>Unknown</b>	85	4%	27	5%
<b>Total</b>	2,029		599	

Note. To ensure student anonymity, some information was not reported in this table.

**Table 10. ECC Degree Types by Ethnicity, 2012-13 Academic Year**

Ethnic Group	A.A.		A.A.-T		A.S.		Total Associate Degrees	
	n	%	n	%	n	%	n	%
<b>Asian</b>	240	20%	10	13%	237	32%	487	24%
<b>African American</b>	145	12%	5	6%	54	7%	204	10%
<b>Latinos</b>	485	40%	44	56%	248	34%	777	38%
<b>American Indian</b>	***		***		***		8	0%
<b>Pacific Islander</b>	***		***		***		13	1%
<b>White</b>	233	19%	14	18%	138	19%	385	19%
<b>Two or More</b>	42	3%	***		24	3%	70	3%
<b>Unknown</b>	50	4%	***		33	4%	85	4%
<b>Total</b>	1,210		79		740		2,029	

Note. A.A. = Associate of Arts. A.A.-T = Associate of Arts for Transfer. A.S. = Associate of Science. No Associate of Science - Transfer degrees were awarded in the 2012-13 academic year. To ensure student anonymity, some information was not reported in this table.

**Table 11. ECC Degrees Types by Age, 2012-13 Academic Year**

Award Type	Age in years							
	Under 20		20 to 24		25 to 49		Over 49	
	n	%	n	%	n	%	n	%
Associate of Arts (A.A.)	48	4%	757	63%	384	32%	21	2%
Associate of Arts - Transfer (A.A.-T)	***		***		***		***	
Associate of Science (A.S.)	29	4%	395	53%	294	40%	22	3%
Total Associate Degrees	79	4%	1,218	60%	689	34%	43	2%

To ensure student anonymity, some information was not reported in this table.

**Table 12. ECC Degree Types by Gender, 2012-13 Academic Year**

Degree Type	Males		Females		Total
	n	%	n	%	
Associate of Arts (A.A.)	465	38%	745	62%	1,210
Associate of Arts - Transfer (A.A.-T)	21	27%	58	73%	79
Associate of Science (A.S.)	368	50%	372	50%	740
Total Associate Degrees	854	42%	1,175	58%	2,029

**Table 13. El Camino College Initiatives by Ethnicity, 2012-13 Academic Year**

Ethnic Group	CTE				STEM				SEM			
	Degrees		Certificates		Degrees		Certificates		Degrees		Certificates	
	n	%	n	%	n	%	n	%	n	%	n	%
<b>Asian</b>	173	29%	88	16%	73	27%	7	9%	68	28%		
<b>African American</b>	53	9%	88	16%	19	7%	13	17%	17	7%		
<b>Latinos</b>	206	35%	215	39%	101	37%	31	41%	91	37%		
<b>American Indian</b>	**		**									
<b>Pacific Islander</b>	5	1%	**		**		**	1%				
<b>White</b>	111	19%	125	23%	53	19%	16	21%	48	20%	**	
<b>Two or More</b>	12	2%	7	1%	15	6%	**	1%	15	6%		
<b>Unknown</b>	35	6%	24	4%	10	4%	7	9%	7	3%	**	
<b>Total</b>	596		551		272		76		246		2	

To ensure student anonymity, some information was not reported in this table.

**Table 14. El Camino College Initiatives by Age, 2012-13 Academic Year**

Initiative	Age in years								Total
	Under 20		20 to 24		25 to 49		Over 49		
	n	%	n	%	n	%	n	%	
<b>CTE</b>									
Degrees	12	2%	245	41%	311	52%	28	5%	596
Certificates	8	1%	177	32%	325	59%	41	7%	551
<b>STEM</b>									
Degrees	15	6%	195	72%	58	21%	**		272
Certificates	0	0%	21	28%	41	54%	14	18%	76
<b>SEM</b>									
Degrees	15	6%	189	77%	41	17%	**		246
Certificates			**						2

To ensure student anonymity, some information was not reported in this table.

**Table 15. El Camino College Initiatives by Gender, 2012-13 Academic Year**

Initiative	Males		Females		Total
	n	%	n	%	
<b>CTE</b>					
Degrees	255	43%	341	57%	596
Certificates	303	55%	248	45%	551
<b>STEM</b>					
Degrees	161	59%	111	41%	272
Certificates	73	96%	3	4%	76
<b>SEM</b>					
Degrees	140	57%	106	43%	246
Certificates	**		**		2

To ensure student anonymity, some information was not reported in this table.

**TABLE 16. El Camino College Degrees Awarded by Major**

Division	Major	2008-09	2009-10	2010-11	2011-12	2012-13	5-yr change
Behavioral and Social Sciences	Anthropology	5	3	5	3	13	
	Childhood Education	38	24	38	39	40	
	Economics	22	38	25	24	44	
	Ethnic Studies					1	
	History	8	14	7	11	15	
	Liberal Studies	48	53	43	43	20	
	Philosophy	1	2		1	1	
	Political Science	8	2	7	2	8	
	Psychology	19	17	15	17	51	
	Sociology	26	38	34	46	43	
	Transfer Studies	182	86	48	35	3	
<b>Total Behavioral and Social Sciences</b>		<b>175</b>	<b>191</b>	<b>174</b>	<b>221</b>	<b>239</b>	<b>37%</b>

<b>Division</b>	<b>Major</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>5-yr change</b>
Business	Accounting	16	11	9	12	14	
	Business Administration	101	121	134	137	158	
	Business Management	12	20	19	22	21	
	Computer Information Systems	8	7	13	10	14	
	Marketing	6	6	3	7	9	
	Office Administration	4	2	3	11	2	
	Paralegal Studies	6	12	15	15	21	
	Real Estate	5	4	2	1	6	
<b>Total Business</b>		<b>158</b>	<b>183</b>	<b>198</b>	<b>215</b>	<b>245</b>	<b>55%</b>
Fine Arts	Art (Various Majors)	30	37	26	22	37	
	Communication Studies	7	8	5	9	22	
	Dance	3	2	2	1	2	
	Film/Video	9	8	8	13	11	
	Music		6	6	9	6	
	Photography	1	8	7	8	4	
	Theatre	4	4	2	3	3	
<b>Total Fine Arts</b>		<b>54</b>	<b>73</b>	<b>56</b>	<b>65</b>	<b>85</b>	<b>57%</b>
Health Sciences and Athletics	Nursing	116	107	59	63	89	
	Physical Education	3	1	1	2	5	
	Pre-Nursing					16	
	Radiologic Tech	15	15	9	15	18	
	Recreation	1			1		
	Respiratory Care	15	21	19	16	16	
	Sign Language/Interpreter Tng.	13	9	13	13	7	
<b>Total Health Sciences and Athletics</b>		<b>163</b>	<b>153</b>	<b>101</b>	<b>110</b>	<b>151</b>	<b>-7%</b>

<b>Division</b>	<b>Major</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>5-yr change</b>
Humanities	English	17	22	24	35	45	
	French	2	4	2	5	6	
	Japanese	3	5		7	10	
	Journalism	2		5	2	3	
	Spanish	5	2	6	7	11	
<b>Total Humanities</b>		<b>29</b>	<b>33</b>	<b>37</b>	<b>56</b>	<b>75</b>	<b>159%</b>
General Studies (Behavioral and Social Sciences)	General Studies	229	188	77	58	28	
	Arts and Humanities		91	154	218	252	
	Biological and Physical Sciences		23	74	145	133	
	Communication Studies		11	17	2	7	
	Culture and Communication			14	30	52	
	Fine and Applied Arts		7	14	21	21	
	Kinesiology and Wellness			2	13	22	
	Social and Behavioral Sciences		95	194	244	331	
<b>Total General Studies</b>		<b>229</b>	<b>415</b>	<b>546</b>	<b>731</b>	<b>846</b>	<b>269%</b>
Industry and Technology	Administration of Justice	23	22	34	32	36	
	Air Conditioning & Refrig.	3	9	4	15	4	
	Architecture	11	4	22	16	13	
	Auto. Collision Repair/Paint.	2		2	5	2	
	Automotive Technology	4	8	8	6	6	
	Computer Aided Design/Drafting		5	2	6	3	
	Construction Technology	8	4	7	1	3	
	Cosmetology	1	6	1	2	4	
	Elect/Comp Hardware Tech	3	4	5	1	12	
	Fashion	6	4	4	2	11	
	Fire & Emergency Technology	24	22	26	38	32	
	Industrial Technology		1	1		2	
	Machine Tool Technology	3	1	1	4	3	
	Manufacturing Technology			1	1	5	
	Welding	2	4	2		4	
<b>Total Industry and Technology</b>		<b>90</b>	<b>94</b>	<b>120</b>	<b>129</b>	<b>140</b>	<b>56%</b>

Division	Major	2008-09	2009-10	2010-11	2011-12	2012-13	5-yr change
Mathematics	Computer Science	1	1	5	2	7	
	Mathematics	12	9	31	38	66	
	Pre-Engineering	11	11	12	22	29	
<b>Total Mathematics</b>		<b>24</b>	<b>21</b>	<b>48</b>	<b>62</b>	<b>102</b>	<b>325%</b>
Natural Sciences	Biology	6	8	13	12	18	
	Chemistry	5	4	4	13	21	
	Environmental Horticulture	1	3				
	General Science	7	20	20	28	47	
	Geography		1		1	1	
	Physical Science	3	1	3	10	35	
	Physics	2	5	3	14	23	
	Pre-Dentistry or Medicine	9	12	28	19	1	
<b>Total Natural Sciences</b>		<b>33</b>	<b>54</b>	<b>71</b>	<b>97</b>	<b>146</b>	<b>342%</b>
<b>All Degrees Awarded</b>		<b>955</b>	<b>1,217</b>	<b>1,351</b>	<b>1,686</b>	<b>2,029</b>	

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

**TABLE 17. El Camino College Certificates Awarded by Major**

Division	Major	2008-09	2009-10	2010-11	2011-12	2012-13	5-yr change
Behavioral and Social Sciences	Childhood Education	2	34	78	99	88	
	Transfer Studies					44	
<b>Total Behavioral and Social Sciences</b>		<b>2</b>	<b>34</b>	<b>78</b>	<b>99</b>	<b>132</b>	<b>6,500%</b>
Business	Accounting	11	12	13	16	11	
	Business Management	8	9	11	8	19	
	Computer Information Systems	2	1	2			
	Marketing	8	10	7	10	15	
	Office Administration	8	8	5	7	1	
	Paralegal Studies	7	15	25	27	26	
	Real Estate	3	3	2	1	5	
<b>Total Business</b>		<b>47</b>	<b>58</b>	<b>65</b>	<b>69</b>	<b>77</b>	<b>64%</b>

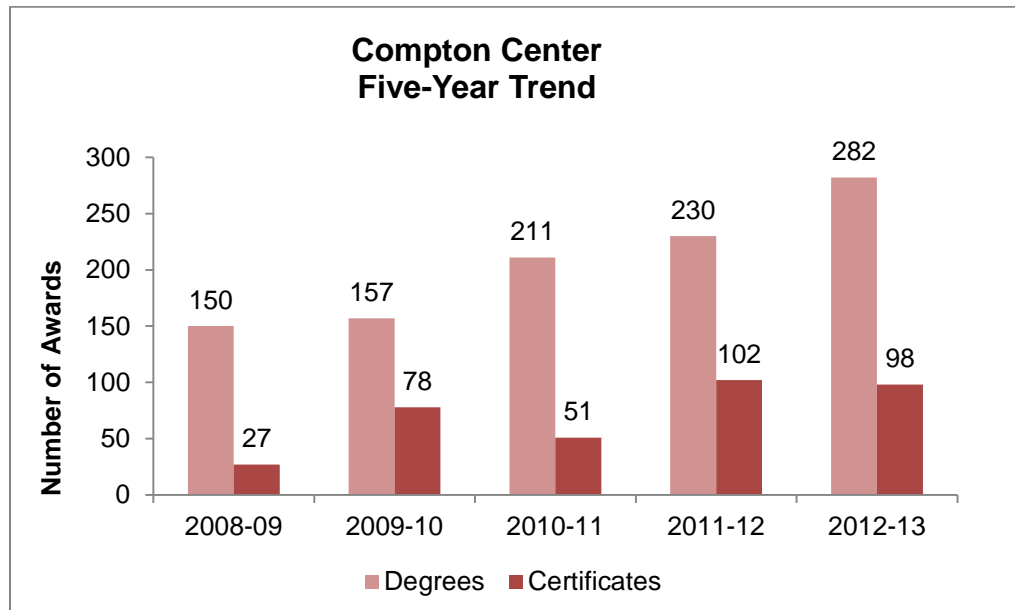


<b>Division</b>	<b>Major</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>5-yr change</b>
Fine Arts	Art (Various Majors)		1	2	2	4	
	Digital Arts	8	5	6	2		
	Film/Video	5	5	5	3	6	
	Music					1	
	Photography		1	3	4		
<b>Total Fine Arts</b>		<b>13</b>	<b>12</b>	<b>16</b>	<b>11</b>	<b>11</b>	<b>-15%</b>
Health Sciences and Athletics	Radiologic Tech	18	15	11	9	8	
	Respiratory Care	15	20	19	16	16	
	Sign Language/Interpreter Tng.	14	15	16	14	8	
<b>Total Health Sciences and Athletics</b>		<b>47</b>	<b>50</b>	<b>46</b>	<b>39</b>	<b>32</b>	<b>-32%</b>
Humanities	Journalism			4	2	1	
<b>Total Humanities</b>		<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>N/A</b>
Industry and Technology	Administration of Justice	13	9	19	10	13	
	Air Conditioning & Refrig.	59	41	52	54	50	
	Architecture	5	2	15	13	10	
	Auto. Collision Repair/Paint.	3	6	13	11	8	
	Automotive Technology	26	15	14	27	58	
	Computer Aided Design/Drafting	1	3	4	5	2	
	Construction Technology					3	
	Cabinet & Fine Woodworking		1				
	Construction Technology	5	6	4	8		
	Cosmetology	45	50	28	49	43	
	Elect/ Comp Hardware Tech	10	1	10	3	8	
	Fashion	6	1	2	2	18	
	Fire & Emergency Technology	39	26	5	27	9	
	Fire & Emergency Tech.-P Tech	104	67	28	24	83	
	Machine Tool Technology	7	3	6	30	13	
	Manufacturing Technology				2	22	
Welding	7	10	5	2	1		
<b>Total Industry and Technology</b>		<b>330</b>	<b>241</b>	<b>205</b>	<b>267</b>	<b>341</b>	<b>3%</b>

<b>Division</b>	<b>Major</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>5-yr change</b>
Mathematics	Computer Science	2	2			2	
<b><i>Total Mathematics</i></b>		<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0%</b>
Nat. Sciences	Environmental Horticulture	1	6		2	3	
<b><i>Total Natural Sciences</i></b>		<b>1</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>200%</b>
<b>All Certificates Awarded</b>		<b>442</b>	<b>403</b>	<b>414</b>	<b>489</b>	<b>599</b>	<b>36%</b>

## APPENDIX B – El Camino College Compton Center

*Figure 3. Compton Center Growth Trends in Degrees and Certificates*



*Table 18. Compton Center Transfer Degrees by Major, 2012-13 Academic Year*

Degree Type	2012-13
Associate of Arts Transfer (A.A.-T)	
Psychology - T	3
Sociology - T	7
Total Associate Transfer Degrees	10

*TABLE 19. Compton Center Degrees Awarded by Major*

Division	Major	2008-09	2009-10	2010-11	2011-12	2012-13	5-yr change
Behavioral and Social Sciences	Anthropology		1				
	Childhood Education	15	23	29	19	14	
	History	1		1		1	
	Liberal Studies	4	4	6	7	6	
	Political Science		1	3		1	
	Psychology		2	1	4	4	
	Sociology	1	1	10	15	10	
	Transfer Studies	7	1	6	2	1	
<b>Total Behavioral and Social Sciences</b>		<b>28</b>	<b>33</b>	<b>56</b>	<b>47</b>	<b>37</b>	<b>32%</b>

<b>Division</b>	<b>Major</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>5-yr change</b>
Business	Accounting					1	
	Business Administration					17	
	Business Management	5	5	14	12	3	
	Computer Information Systems			1	1	1	
	Marketing				2		
	Office Administration				1		
	Real Estate	3		1	2	1	
<b>Total Business</b>		<b>8</b>	<b>5</b>	<b>16</b>	<b>18</b>	<b>23</b>	<b>188%</b>
Fine Arts	Art (Various Majors)					2	
	Dance			1	1		
	Film/Video	1			1		
	Speech Communication	1					
<b>Total Fine Arts</b>		<b>2</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>0%</b>
	Nursing	34	47	30	45	45	
	Physical Education			1	1		
	Pre-Nursing					1	
	Respiratory Care		1				
	Sign Language/Interpreter Tng.			1		1	
<b>Total Health Sciences and Athletics</b>		<b>34</b>	<b>48</b>	<b>32</b>	<b>46</b>	<b>47</b>	<b>38%</b>
Humanities	English				1		
	Spanish		1		1	1	
<b>Total Humanities</b>		<b>0</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>N/A</b>
General Studies (Behavioral and Social Sciences)	General Studies	73	43	33	17	10	
	Arts and Humanities		12	28	44	55	
	Biological and Physical Sciences			8	9	13	
	Communication Studies					1	
	Culture and Communication					1	
	Fine and Applied Arts					2	
	Kinesiology and Wellness					2	
	Social and Behavioral Sciences		8	23	30	52	
<b>Total General Studies</b>		<b>73</b>	<b>63</b>	<b>92</b>	<b>100</b>	<b>136</b>	<b>86%</b>

<b>Division</b>	<b>Major</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>5-yr change</b>
Industry and Technology	Administration of Justice	1	3	6	7	16	
	Air Conditioning & Refrig.				1	1	
	Auto. Collision Repair/Paint.			1			
	Automotive Technology			1	1		
	Cosmetology			1			
	Fire & Emergency Tech.-P Tech		1	2			
	Fire & Emergency Technology					3	
	Machine Tool Technology				1	1	
	Pre-Engineering					2	
	Welding	3	1	1	2	1	
<b>Total Industry and Technology</b>		<b>4</b>	<b>5</b>	<b>12</b>	<b>12</b>	<b>24</b>	<b>500%</b>
Mathematics	Mathematics					3	
<b>Total Mathematics</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>N/A</b>
Natural Sciences	Biology					1	
	Chemistry	1				2	
	General Science			1	1	1	
	Physical Science					3	
	Physics					2	
	Pre-Dentistry or Medicine		2	1	2		
<b>Total Natural Sciences</b>		<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>9</b>	<b>800%</b>
<b>All Degrees Awarded</b>		<b>150</b>	<b>157</b>	<b>211</b>	<b>230</b>	<b>282</b>	

**TABLE 20. Compton Center Certificates Awarded by Major**

<b>Division</b>	<b>Major</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>5-yr change</b>
Behavioral and Social Sciences	Childhood Education	15	53	24	41	40	
	Transfer Studies					5	
<b>Total Behavioral and Social Sciences</b>		<b>15</b>	<b>53</b>	<b>24</b>	<b>41</b>	<b>45</b>	<b>200%</b>

<b>Division</b>	<b>Major</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>5-yr change</b>
Business	Accounting		1			3	
	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		2	1	
<b>Total Business</b>		<b>6</b>	<b>9</b>	<b>1</b>	<b>9</b>	<b>4</b>	<b>-33%</b>
	Film/Video					2	
	Music		1	1		4	
<b>Total Fine Arts</b>		<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>N/A</b>
Health Sciences and Athletics	Respiratory Care		1				
	Sign Language/Interpreter Tng.		1			1	
<b>Total Health Sciences and Athletics</b>		<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>N/A</b>
Industry and Technology	Administration of Justice			4	5	7	
	Air Conditioning & Refrig.			12	1	10	
	Architecture		1			1	
	Auto. Collision Repair/Paint.			1	1	2	
	Automotive Technology	3	2	5	7	14	
	Computer Aided Design/Drafting			1			
	Cosmetology	1			31	3	
	Fire & Emergency Technology				1		
	Machine Tool Technology		1		1		
	Welding	2	9	2	5	5	
<b>Total Industry and Technology</b>		<b>6</b>	<b>13</b>	<b>25</b>	<b>52</b>	<b>42</b>	<b>600%</b>
<b>All Certificates Awarded</b>		<b>27</b>	<b>78</b>	<b>51</b>	<b>102</b>	<b>98</b>	<b>263%</b>