

### **Overview**

**Facilities Plan** 

**Planning Data** 

**Space Program** 

**Facilities Master Plan** 

In 2016, a Facilities Master Plan update was developed to reflect the College's accomplishments related to site and facilities development since 2012. The Facilities Plan chapter of this CMP highlights the linkages between the Educational Master Plan and the facilities recommendations and provides an update guide for future development.

The Facilities Plan provides a written and narrative description of how El Camino College will address long-range forecast for enrollment and weekly student contact hours (WSCH), serve changing needs, and position the College to maximize state funding opportunities. It is guided by the College's Educational Master Plan, which serves as the foundation for recommendations regarding facilities. The Facilities Plan provides a road map for future development of the campus, including recommendations for renovation and replacement of facilities, as well as a number of site improvements for the campus.

El Camino College has been involved in several facilities planning efforts, beginning in 1997 with the development of the first Facilities Needs Report. The findings of this report were incorporated into the 2002 Facilities Master Plan, which established the long-range vision for campus development. Since 2002, a series of facilities master plan updates were developed to address changing conditions, priorities and needs of the College.

The most recent Facilities Master Plan was developed and approved in 2012 and served as the basis for a series of campus improvements. In 2016, an update was developed to reflect these improvements and to incorporate more detailed recommendations for the Fine Arts Precinct area of the campus.

# **Planning Data**

Data is the key element that is used to link educational and facilities planning efforts. The Planning Team worked closely with the College to collect the planning data and develop a forecast of future facilities space needs to serve the current and projected programs for the College.

#### **Profile of Current Curriculum**

Quantifying space needs begins with an assessment of the current programs of instruction. To create this snapshot, the 2015 fall semester was used to represent the College's current program of instruction. The process included an analysis of key curriculum components and a comparison of those components to statewide standards or averages for community colleges in California.

An analysis of sections and full time equivalent students (FTES) generated a breakdown of ratios for lecture versus laboratory hours and weekly student contact hours (WSCH) produced. The process and the elements were used to create a baseline from which the current program of instruction could be viewed. Characteristics of the current program of instruction, by instructional division, are presented in Figure A.

Figure A: Program of instruction by Instructional Division - Fall 2015

College Division	Sections	WSCH	FTES	LEC WSH	LAB WSH	On-line WSH	Off-Campus WSH	% of Sections	%of WSH
Behavioral & Social Sciences	341	40,530.74	1,399.47	39,073.95	788.91	436.69	231.20	16.12%	14.08%
Business	115	14,670.76	444.59	12,152.36	2,476.09	42.31	-	5.43%	5.10%
Fine Arts	333	33,217.08	1,000.46	22,282.01	10,859.51	75.56	-	15.43%	11.54%
Health Sciences & Athletics	285	32,587.69	873.39	11,755.23	20,759.78	52.69	-	13.47%	11.32%
Humanities	412	54,141.86	1,585.04	46,037.15	8,088.64	96.06	-	19.47%	18.80%
Industry & Technology	202	32,888.73	852.61	11,732.91	13,394.46	54.36	7,706.99	9.55%	11.42%
Mathematical Sciences	265	45,185.85	1412.58	41,072.41	3,979.69	133.75	-	12.52%	15.69%
Natural Sciences	163	34,711.04	1,048.59	18,964.02	15,731.58	15.44	-	7.70%	12.06%
Total	2,116	287,933.74	8,616.72	203,090.03	75,998.65	906.86	7,938.19	100.00%	100.00%

Source: El Camino Community College District, Office of Academic Affairs

#### Translation of Current Curriculum to State Standards

To create a benchmark comparison with statewide standards and averages, disciplines and programs were coded with the state's Taxonomy of Programs (TOP) code format. The following table provides a view of the College's translated instructional disciplines and key curriculum components via the TOP code designation.

It should be noted that the TOP code format is used throughout the remainder of this document to forecast physical space needs.

Figure B Source (opposite page): El Camino Community College District, Office of Academic Affairs

TOPS DISCIPLINE	ТОР	SECTIONS	WSCH	FTES	LEC	LAB	ON-LINE	OFF-CAMPUS	% OF SEC-	% OF
And and Charles	CODE	11	1 200 50	20.10	WSCH	WSCH	WSCH	WSCH	TIONS	WSCH
Academic Strategies  Accounting	493013 050200	11 27	1,398.69 5,474.40	20.18 156.76	1,398.69 4,497.76	976.64	-	-	0.52%	0.49%
Administrative Of Justice	210500	24	2,169.29	71.36	2,125.41	31.69	12.19	-	1.13%	0.75%
Air Conditioning and Refrig	094600	6	876.31	22.77	453.11	423.21	-	-	0.28%	0.30%
American Studies	220120	3	489.60	14.65	489.60	-	-	-	0.14%	0.17%
Anatomy & Physiology	041000	19	5,860.30	179.99	1,632.70	4,227.60	-	-	0.90%	2.04%
Anthropology	220200	34	3,958.70	146.17	3,624.40	278.80	55.50	-	1.61%	1.37%
Architectural Technology  Art	100200	12 96	1,473.90 11,499.93	42.95 346.46	703.37 6,610.90	770.53 4,871.40	17.63	-	0.57% 4.54%	0.51% 3.99%
Astronomy	191100	17	2,332.40	70.73	2,135.20	197.20	17.03		0.80%	0.81%
Auto Collision Repair/Painting	094900	6	1,659.28	48.45	413.61	1,245.67	-	-	0.28%	0.58%
Automotive Technology	094800	10	1,832.20	55.55	722.50	1,109.70	-	-	0.47%	0.64%
Biology	040100	29	7,893.80	237.32	3,451.60	4,442.20	-		1.37%	2.74%
Business Management	050600	20	2,264.49	70.11	2,250.80	-	13.69	-	0.95%	0.79%
Chemistry	190500	31	8,296.80	249.55	4,564.11	3,732.69	-	-	1.47%	2.88%
Childhood Education	130500	34	3,518.21	130.38	3,377.07	81.71	59.44	-	1.61%	1.22%
Computer Aided Design/Drafting Computer Information Systems	095300	11 32	1,284.63	31.65	390.71	880.74	13.18	-	0.52%	0.45%
Computer Science	070200	21	3,463.73 2,763.25	108.26 85.37	1,962.55 1,426.86	1,481.30 1,325.14	19.88 11.25		1.51% 0.99%	1.20% 0.96%
Construction Technology	095200	12	1,493.60	46.14	458.17	1,035.43	-	-	0.57%	0.52%
Cosmetology	300700	11	4,249.18	90.63	755.82	3,493.36	-	-	0.52%	1.48%
Dance	100800	41	2,711.05	91.12	1,268.40	1,407.40	35.25	-	1.94%	0.94%
Earth Sciences	193000	24	3,531.04	109.93	2,261.00	1,254.60	15.44	-	1.13%	1.23%
Economics	220400	18	2,060.90	74.20	2,026.40	-	34.50	-	0.85%	0.72%
Education	080100	1	96.60	1.46	96.60	-	-	-	0.05%	0.03%
Electronics	093400	9	1,405.20	41.88	504.97	900.23	-	-	0.43%	0.49%
Engineering Tochnology	090100 092400	2 17	178.00 1,401.90	5.44 42.66	178.00 96.60	193.20	-	1,112.10	0.09%	0.06%
Engineering Technology  English	150100	315	42,800.93	1,273.27	34,829.07	7,891.73	80.13	1,112.10	14.89%	14.86%
Environmental Technology	030300	3	239.60	7.03	163.87	75.73	- 00.13		0.14%	0.08%
Ethnic Studies	220300	7	1,047.20	32.17	1,047.20	-	-	-	0.33%	0.36%
Family Consumer Studies	130100	20	2,056.68	65.35	1,569.89	463.04	23.75	-	0.95%	0.71%
Film/Video	061200	12	1,787.00	51.20	1,465.52	321.48	-	-	0.57%	0.62%
Fire Academy/Emergency Tech	213350	41	9,224.34	198.51	2,077.45	546.75	5.25	6,594.89	1.94%	3.20%
Foreign Languages	110100	67	8,672.30	249.76	8,672.30	-	-	-	3.17%	3.01%
Geography	220600	17	2,291.60	67.33	2,091.00	200.60	41.62	-	0.80%	0.80%
Health & First Aid History	083700 220500	39 63	4,328.93 8,372.35	146.96 270.51	4,163.10 8,204.20	124.20	41.63 45.75	122.40	1.84% 2.98%	1.50% 2.91%
Horticulture	010900	5	373.30	11.33	328.84	44.46	43.73	122.40	0.24%	0.13%
Human Development	200300	34	2,834.88	71.21	2,834.88	-	-	-	1.61%	0.98%
Humanities	490300	2	126.69	7.55	119.00	-	7.69	-	0.09%	0.04%
Journalism	060200	13	846.85	28.08	721.69	116.91	8.25	-	0.61%	0.29%
Law/Legal Assistance	140100	21	2,145.55	69.34	2,118.65	18.15	8.75	-	0.99%	0.75%
Library Information Science	160100	2	71.83	1.21	71.83	-	-	-	0.09%	0.02%
Machine Tool Technology	095630	8	1,210.00	37.51	467.31	742.70	-	-	0.38%	0.42%
Manufacturing Technology  Mathematics	095600 170100	242	97.60 42,244.60	2.10 1,321.80	24.40 39,467.55	73.20 2,654.55	122.50	-	0.05%	0.03%
Medical Assistance	120800	3	411.40	12.63	411.40	2,034.33	122.50		0.14%	0.14%
Music	100400	78	5,888.15	180.03	4,000.55	1,864.91	22.69	-	3.69%	2.04%
Nursing	123000	48	7,369.66	107.07	2,367.88	5,001.78	-	-	2.27%	2.56%
Office Administration	051440	8	540.60	16.03	540.60	-	-	-	0.38%	0.19%
Philosophy	150900	24	2,711.50	92.59	2,686.00	-	25.50	-	1.13%	0.94%
Photography	101100	18	1,774.70	51.42	781.36	993.35	-	-	0.85%	0.62%
Physical Education	083500	133	14,103.89	418.50	910.58	13,182.24	11.06	-	6.29%	4.90%
Physical Sciences	190100	1	213.90	6.68	71.30	142.60	-	-	0.05%	0.07%
Physics Political Science	190100 220700	20 37	3,917.90 4,564.81	115.73 164.56	2,428.28 4,399.20	1,489.62	56.81	108.80	0.95% 1.75%	1.36%
Psychology	200100	54	7,083.80	254.12	6,609.60	384.20	90.00	-	2.55%	2.46%
Radiologic Technology	122500	14	1,978.36	53.46	603.10	1,375.27	-	-	0.66%	0.69%
Real Estate Escrow	051100	7	782.00	24.11	782.00	-		-	0.33%	0.27%
Recreation	083600	2	248.20	7.54	248.20		-	-	0.09%	0.09%
Respiratory Care/Therapy	121000	9	940.30	28.87	447.23	493.07	-	-	0.43%	0.33%
Sign Language/Inter Training	085000	21	2,260.14	70.02	2,108.13	152.01		-	0.99%	0.78%
Sociology	220800	30	3,452.19	136.92	3,338.80	44.20	69.19	-	1.42%	1.20%
Special Resource Center	080900	16	946.82	28.36	515.61	431.21			0.76%	0.33%
Speech Communication Theatre	150600	70 18	7,280.60 2,275.65	219.44 60.81	7,142.00 1,013.28	138.60 1,262.37			3.31% 0.85%	2.53% 0.79%
Tutor Training	493009	2	224.58	4.99	224.58	-,202.37			0.09%	0.08%
Welding	095650	11	2,215.04	48.00	805.75	1,409.29		-	0.52%	0.77%
Women's Studies	_			1						
	220110	2	340.00	10.51	340.00		- 1	-	0.09%	0.12%

#### **Curriculum Indicators**

Figure C provides a snapshot of key curriculum indicators for the fall 2015 semester of instructional programs. Figure C compares enrollment per class section using the TOP code format for instructional programs. The statewide standard for enrollment per class section is 35 students. Combined with the percentage ratio of overall seats enrolled, the table provides a snapshot of the key TOP code instructional disciplines as they presently exist. The College averages 28 seats per class section for the baseline 2015 fall semester.

Figure C: Seat Count Analysis/Comparison by TOP Code - Fall 2015

TOPS DISCIPLINE	TOP CODE	TOTAL SEATS	AVG CLASS SIZE	+/- STATE STANDARD	% ENROLLED SEATS
Academic Strategies	493013	440	28	-21.30%	0.62%
Accounting	050200	1,090	35	-0.42%	1.53%
Administrative Of Justice	210500	794	28	-19.17%	1.11%
Air Conditioning and Refrig	094600	165	21	-40.00%	0.23%
American Studies	220120	135	46	31.43%	0.19%
Anatomy & Physiology	041000	684	34	-2.41%	0.96%
Anthropology	220200	1,480	41	18.40%	2.07%
Architectural Technology	020100	363	22	-38.57%	0.51%
Art	100200	3,144	23	-33.30%	4.41%
Astronomy	191100	695	39	11.76%	0.97%
Auto Collision Repair/Painting	094900	109	16	-54.29%	0.15%
		211	20		
Automotive Technology	094800			-44.00%	0.30%
Biology	040100	1,021	34	-3.15%	1.43%
Business Management	050600	842	33	-4.86%	1.18%
Chemistry	190500	933	28	-19.45%	1.31%
Childhood Education	130500	1,420	38	8.82%	1.99%
Computer Aided Design/Drafting	095300	258	19	-46.75%	0.36%
Computer Information Systems	070200	789	21	-41.07%	1.11%
Computer Science	070600	454	18	-48.44%	0.64%
Construction Technology	095200	289	18	-47.62%	0.41%
Cosmetology	300700	133	12	-66.49%	0.19%
Dance	100800	1,235	19	-45.16%	1.73%
Earth Sciences	193000	801	30	-13.21%	1.12%
Economics	220400	784	40	13.81%	1.10%
Education	080100	50	42	20.00%	0.07%
Electronics	093400	234	21	-40.63%	0.33%
Engineering	090100	70	32	-10.00%	0.10%
Engineering Technology	092400	448	23	-33.78%	0.63%
English	150100	10,228	29	-16.92%	14.33%
Environmental Technology	030300	89	16	-54.29%	0.12%
Ethnic Studies	220300	299	43	23.67%	0.42%
	130100	706	29	-17.43%	0.42%
Family Consumer Studies	_				
Film/Video	061200	456	35	1.19%	0.64%
Fire Academy/Emergency Tech	213350	1,340	26	-24.46%	1.88%
Foreign Languages	110100	2,244	22	-37.23%	3.14%
Geography	220600	666	37	6.55%	0.93%
Health & First Aid	083700	1,628	36	2.34%	2.28%
History	220500	2,763	41	16.73%	3.87%
Horticulture	010900	181	20	-44.00%	0.25%
Human Development	200300	1,035	28	-19.66%	1.45%
Humanities	490300	84	38	8.57%	0.12%
Journalism	060200	463	19	-45.05%	0.65%
Law/Legal Assistance	140100	823	29	-15.78%	1.15%
Library Information Science	160100	60	18	-50.00%	0.08%
Machine Tool Technology	095630	183	22	-37.50%	0.26%
Manufacturing Technology	095600	24	14	-60.00%	0.03%
Mathematics	170100	8,717	34	-3.67%	12.22%
Medical Assistance	120800	120	40	14.29%	0.17%
Music	100400	2,285	21	-41.36%	3.20%
Nursing	123000	728	13	-63.69%	1.02%
Office Administration	051440	210	19	-46.07%	0.29%
Philosophy	150900	1,008	37	5.60%	1.41%
	101100	545	19	-44.76%	0.76%
Physical Education	_				
Physical Education	083500	4,369	25	-27.58%	6.12%
Physical Sciences	190100	30	31	-11.43%	0.04%
Physics	190100	640	30	-13.71%	0.90%
Political Science	220700	1,622	43	22.32%	2.27%
Psychology	200100	2,402	43	23.49%	3.37%
Radiologic Technology	122500	241	16	-54.49%	0.34%
Real Estate Escrow	051100	310	32	-7.35%	0.43%
Recreation	083600	70	35	0.00%	0.10%
Respiratory Care/Therapy	121000	240	16	-53.97%	0.34%
Sign Language/Inter Training	085000	560	25	-28.84%	0.78%
Sociology	220800	1,445	44	25.71%	2.03%
Special Resource Center	080900	331	17	-51.25%	0.46%
Speech Communication	150600	2,112	29	-16.16%	2.96%
Theatre	100600	476	23	-33.97%	0.67%
Tutor Training Wolding	493009	230	42	18.57%	0.32%
Welding	095650	228	18	-49.09%	0.32%
Women's Studies	220110	90	50	41.43%	0.13%
TOTAL		71,352	28	-18.99%	100.00%

Source: El Camino Community College District, Office of Academic Affairs

The state standard used for determining optimal productivity is based on WSCH generated per fulltime equivalent faculty (FTEF). The fall 2015 overall average productivity measure of 499 WSCH/FTEF was about 95% efficient when compared to the state standards. ECC currently has an overall average productive measure above 525 WSCH/FTEF.

Figure D provides a summary of the WSCH generated per FTEF by TOP code for the 2015 fall semester.

Common	TOP DISCIPLINE	ТОР	WSCH	FTEF	ACTUAL	ADJUSTED	+/- 525 STATE	% OF TOTAL
According   90000   5,454.66   8.4   663.9   937.9   13.96   13.96   776   7			4 000 00	4.50	_			
Amenine Colorisis   2,900.00   2,900.00   3,900.00								
According and Refrig   90000   87513   1.54   97725   97224   91555   9.050   9.250								
American	-							
Materian Physiology								
Activation Revokey   90200   14773   239   4488   38456   24274   5325								
According	Anthropology	220200	3,958.70	6.81	581.39	516.79	-1.56%	1.37%
Extremory   99100   23320   338   69015   51347   3655   6815	Architectural Technology	020100	1,473.90	3.39	434.88	386.56	-26.37%	0.51%
Accordant February   0.9800   1.093.8   3.28   595.27   545.29   345.29   345.29   5.50.29   6.50.4   5.50.29   6.50.4   5.50.29   6.50.4   5.50.29   6.50.4   5.50.29   6.50.4   5.50.29   6.50.2	Art	100200	11,499.93	27.51	417.97	371.53	-29.23%	3.99%
Description for Noting   Description   Des	Astronomy	191100	2,332.40	3.38	690.15	613.47	16.85%	0.81%
Exchange	Auto Collision Repair/Painting	094900	1,659.28	3.28	506.17	449.93	-14.30%	0.58%
Semilary   195000   2,21460   459   55338   44172   4.58e   0.79e   Chemilary   195000   1,206.00   1,51331   544.44   447.50   7,14e   2,28b   1,206.00   1,206.00   1,51331   548.44   447.50   7,14e   2,28b   1,206.00								<u> </u>
Centrology								
Computer Acide Design/Christ   Computer Acide Design/Christ   Computer Mode Design/Christ   Co								
Computer Information Systems   075000   124640   277   446407   41240   121404   1								
Computer Science								
Computer Science								<del> </del>
Contention Fernology			-					
David   Carth Sciences   120000   2,711.05   871   311.20   276.60   40.30%   0.98%   Carth Sciences   120000   353.04   6.21   564.40   955.34   3.76%   1.25%   0.72%   Cartacions   220400   2,600.00   368   593.93   477.23   3.20%   7.22%   5.20%   0.72%   Cartacions   0.90400   0.9060   0.07   13,33.33   12,00.27   1229.14%   0.00%   0.00%   1		095200	1,493.60	3.43	435.27	386.91	-26.30%	0.52%
Extra   Control   Contro	Cosmetology	300700	4,249.18	8.68	489.26	434.89	-17.16%	1.48%
Execution   220400   2266.39   3.68   559.39   497.23   5.29%   0.72%	Dance	100800	2,711.05	8.71	311.28	276.69	-47.30%	0.94%
Electronics	Earth Sciences	193000	3,531.04	6.21	568.40	505.24	-3.76%	1.23%
Electronics	Economics	220400	2,060.90	3.68	559.39	497.23	-5.29%	0.72%
Engineering	Education	080100	96.60	0.07	1,353.35	1,202.97	129.14%	0.03%
Engineering Technology	Electronics	093400	1,405.20	3.18	442.54	393.37	-25.07%	0.49%
English 15010 42,800,93 80,17 533,85 474,53 -9,61% 14,86% Environmental Technology 039300 239,60 0.75 320,61 224,98 45,72% 0.08% Environmental Technology 039300 12,000 1.04 137,000 649,99 23,75% 0.36% 14,81% 0.06% Environmental Technology 06,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 16,67% 0.06% 17,787,00 2.79 640,65 569,47 8.47% 0.67% 16,67% 11,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.67% 18,000 1,787,00 2.79 640,65 569,47 8.47% 0.79% 1.	Engineering	090100	178.00	0.34	519.47	461.75	-12.05%	0.06%
Envisonmental Technology	Engineering Technology	092400	1,401.90	3.25	431.80	383.82	-26.89%	0.49%
Ethnic Studies	English							
Family Consumer Studies								
Film/Video   061200   1,787.00   2.79   640.65   559.47   8.47%   0.62%   Fire Academy/Emergency Tech   213530   9,224.34   22.60   408.877   362.73   309.1%   3.20%   Fire Academy/Emergency Tech   213530   9,224.34   22.60   408.877   362.73   309.1%   Foreign Languages   110.000   8.723.30   197.1   439.96   391.08   2-25.51%   3.10%   Geography   220600   2,291.60   3.38   678.08   660.74   14.81%   0.80%   Health & First Add   083700   4.328.93   79.8   542.31   482.05   8.18%   1.50%   History   220000   8.372.33   12.29   640.28   577.14   9.99%   2.91%   Horticulture   01.0900   373.30   1.11   337.31   299.83   4-2.89%   0.13%   Human Development   200300   2,884.88   483   559.38   552.12   -0.55%   0.98%   Illumanities   409.000   12.66.0   0.41   309.48   275.00   475.00%   0.04%   Parmilsim   060000   846.85   2.88   2.94.30   2.61.60   5-0.37%   0.29%   Law/Legal Assistance   140.000   2,145.55   4.47   593.05   447.16   1-48.89%   0.75%   Machine Tool Technology   095500   1.21.000   2.04   411.55   366.18   3-0.25%   0.42%   Marifecturing Technology   095500   97.60   0.22   440.87   331.89   253.5%   0.03%   Mathematics   100000   5,883.13   15.08   390.54   347.14   338.8%   2.25%   0.04%   Marifecturing Technology   095500   97.60   0.22   440.87   331.89   253.5%   0.03%   Mathematics   120000   41.40   0.61   669.99   595.55   13.34%   0.14%   Music   100400   5,883.13   15.08   390.54   347.14   33.88%   2.04%   Music   100400   5,88								
Fire Academy/Emergency Tech		-						
Foreign Languages								
Ceegraphy								
Health & First Aid								
History 220500 8,372.35 12.89 649.28 577.14 9,93% 2.91% Horticulture 010900 373.30 1.11 337.31 299.83 -4.28.9% 0.13% 14.11 1 337.31 299.83 -4.28.9% 0.13% 14.11 1 337.31 299.83 -4.28.9% 0.13% 14.11 1 399.85 522.12 0.5.5% 0.98% 14.11 1 399.85 522.12 0.5.5% 0.98% 14.11 1 399.86 12.50 0.41 309.48 275.09 4.76.0% 0.04% 14.11 1 399.48 275.09 4.76.0% 0.04% 14.11 1 399.48 275.09 4.76.0% 0.04% 14.11 1 399.48 275.09 4.76.0% 0.04% 14.11 1 399.48 275.09 4.76.0% 0.05% 14.11 1 399.48 275.09 4.76.0% 0.05% 14.11 1 399.48 275.09 4.76.0% 0.05% 14.11 1 399.48 275.09 4.76.0% 0.05% 14.11 1 399.48 275.09 4.76.0% 0.05% 14.11 1 399.48 275.09 4.76.0% 0.05% 14.11 1 399.48 275.09 4.76.0% 0.05% 14.11 1 399.48 275.09 4.76.0% 0.05% 14.11 1 399.48 275.09 4.76.0% 0.05% 14.11 1 399.48 275.00 4.76.0% 0.75% 14.11 1 399.48 275.09 4.76.0% 0.75% 14.11 1 399.48 275.09 4.76.0% 0.75% 14.11 1 399.48 275.09 4.76.0% 0.75% 14.11 1 399.48 275.09 4.76.0% 0.75% 14.11 1 399.48 275.09 4.76.0% 0.75% 14.11 1 399.48 275.00 4.76.0% 0.75% 14.11 1 399.48 275.00 4.76.0% 0.75% 14.11 1 399.48 275.00 4.76.0% 0.75% 14.11 1 399.48 275.00 4.76.0% 0.75% 14.11 1 399.48 275.00 4.76.0% 0.75% 14.11 1 399.48 275.00 4.76.0% 0.75% 14.11 1 399.48 275.00 4.76.0% 0.75% 14.11 1 399.48 275.00 4.75% 14.11 1 399.48 275.								
Human Development		220500		12.89	649.28	577.14	9.93%	2.91%
Humanities	Horticulture	010900	373.30	1.11	337.31	299.83	-42.89%	0.13%
Dournalism	Human Development	200300	2,834.88	4.83	587.38	522.12	-0.55%	0.98%
Law/Legal Assistance 140100 2,145.55 4.27 503.05 447.16 -14.83% 0.75% Ulbrary Information Science 160100 71.83 0.14 503.13 447.22 -14.81% 0.02% Machine Tool Technology 095630 1,1210.00 2.94 411.95 366.18 -30.25% 0.42% Manufacturing Technology 095600 97.60 0.22 440.87 391.89 -25.35% 0.03% Mathematics 170100 42,244.60 73.71 573.08 509.41 -2.29% 14.67% Medical Assistance 120800 411.40 0.61 669.99 595.55 13.44% 0.14% Music 100400 5.888.15 15.08 390.54 347.14 -33.88% 2.04% Nursing 123000 7,369.66 18.81 391.85 348.31 -33.65% 2.56% 0.05% 0.0	Humanities	490300	126.69	0.41	309.48	275.09	-47.60%	0.04%
Library Information Science 160100 71.83 0.14 503.13 447.22 -14.81. 0.02% Machine Tool Technology 095630 1,210.00 2.94 411.95 366.18 -30.25% 0.42% 0.42% Manufacturing Technology 095600 97.60 0.22 440.87 391.89 -25.35% 0.03% Mathematics 170100 42,244.60 73.71 573.08 509.41 -2.97% 14.67% Malecturing Technology 095600 97.60 0.22 440.87 391.89 -25.35% 0.03% Mathematics 170100 42,244.60 73.71 573.08 509.41 -2.97% 14.67% Malecturing Technology 0.95600 411.40 0.61 666.99 9 595.55 13.44% 0.14% Music 100400 5.888.15 15.08 390.54 347.14 -33.88% 2.04% Nursing 123000 7,369.66 18.81 391.85 348.31 -33.65% 2.56% 0.96% 0	Journalism	060200	846.85	2.88	294.30	261.60	-50.17%	0.29%
Machine Tool Technology         095630         1,210.00         2.94         411.95         366.18         .30.25%         0.42%           Manufacturing Technology         095600         97.60         0.22         440.87         391.89         -25.35%         0.03%           Mathematics         170100         42,244.60         73.71         573.08         509.41         -2.97%         14.67%           Medical Assistance         120800         411.40         0.61         669.99         595.55         13.44%         0.14%           Music         100400         5.888.15         15.08         390.54         347.14         -33.88%         2.04%           Mursing         123000         7.369.66         18.81         391.85         348.31         -33.55%         2.25%           Office Administration         051440         540.60         1.64         330.15         293.47         -44.10%         0.19%           Philosophy         150900         2,711.50         4.91         551.98         490.65         -6.54%         0.94%           Photography         101100         1,774.70         4.85         365.85         325.20         -38.06%         0.62%           Physical Education         0.83500	Law/Legal Assistance	140100	2,145.55	4.27	503.05	447.16	-14.83%	0.75%
Manufacturing Technology         095600         97.60         0.22         440.87         391.89         -25.35%         0.03%           Mathematics         170100         42,244.60         73.71         573.08         509.41         -2.97%         14.67%           Medical Assistance         120800         411.40         0.61         669.99         595.55         13.44%         0.14%           Music         100400         5,888.15         15.08         390.54         347.14         -33.88%         2.04%           Nursing         123000         7,69.66         18.81         391.85         348.31         -33.65%         2.56%           Office Administration         051440         540.60         1.64         331.51         293.47         -44.10%         0.19%           Philosophy         150900         2,711.50         4.91         551.98         490.65         -6.54%         0.94%           Photography         101100         1,774.70         4.85         365.85         325.20         -38.06%         0.62%           Physical Education         083500         14,103.89         24.78         569.15         505.91         -3.64%         4.90%           Physical Sciences         190100 <th< td=""><td>Library Information Science</td><td>160100</td><td>71.83</td><td>0.14</td><td>503.13</td><td>447.22</td><td>-14.81%</td><td>0.02%</td></th<>	Library Information Science	160100	71.83	0.14	503.13	447.22	-14.81%	0.02%
Mathematics         170100         42,244.60         73.71         573.08         509.41         -2.97%         14.67%           Medical Assistance         120800         411.40         0.61         669.99         595.55         13.44%         0.14%           Music         100400         5,888.15         15.08         390.54         347.14         -33.88%         2.04%           Nursing         123000         7,369.66         18.81         399.85         348.31         -33.65%         2.56%           Office Administration         051440         540.60         1.64         330.15         293.47         -44.10%         0.19%           Philosophy         150900         2,711.50         4.91         551.98         490.65         -6.54%         0.94%           Photography         101100         1,774.70         4.85         365.85         325.20         -38.06%         0.62%           Physical Education         0.83500         14,103.89         24.78         569.15         505.91         -3.64%         4.90%           Physical Sciences         190100         23.39         0.34         632.88         562.56         7.15%         0.07%           Physical Science         190100         3,917.9	Machine Tool Technology					i e		
Medical Assistance         120800         411.40         0.61         669.99         595.55         13.44%         0.14%           Music         100400         5,888.15         15.08         390.54         347.14         -33.88%         2.04%           Nursing         123000         7,369.66         18.81         391.85         348.31         -33.65%         2.56%           Office Administration         051440         540.60         1.64         330.15         293.47         -44.10%         0.19%           Philosophy         150900         2,711.50         4.91         551.98         490.65         -6.54%         0.94%           Photography         101100         1,774.70         4.85         365.85         325.20         -38.06%         0.62%           Physical Education         0.83500         14,103.89         24.78         569.15         505.91         -3.64%         4.90%           Physical Sciences         190100         23,917.90         6.48         604.88         537.67         2.41%         1.36%           Political Science         220700         4,564.81         7.57         602.77         535.79         2.06%         1.59%           Psychology         200100         7,083.8		<del></del>						
Music         100400         5,888,15         15.08         390,54         347,14         -33,88%         2.04%           Nursing         123000         7,369,66         18.81         391,85         348,31         -33,65%         2.56%           Office Administration         051440         540,60         1.64         330,15         293,47         -44,10%         0.19%           Philosophy         150900         2,711,50         4.91         551,98         490,65         -6,54%         0.94%           Photography         101100         1,774,70         4.85         365,85         325,20         -38,06%         0.62%           Physical Education         083500         14,103,89         24,78         569,15         505,91         -3,64%         4,90%           Physical Sciences         190100         3,917,90         648         604,88         537,67         2,41%         1,36%           Physics         190100         3,917,90         648         604,88         537,67         2,41%         1,36%           Physical Sciences         190100         3,917,90         648         604,88         537,67         2,41%         1,36%           Political Science         220700         4,564,81			,					
Nursing 123000 7,369,66 18.81 391.85 348.31 -33.65% 2.56%  Office Administration 051440 540.60 1.64 330.15 293.47 -44.10% 0.19%  Philosophy 150900 2,711.50 4.91 551.98 490.65 -6.54% 0.94%  Photography 101100 1,774.70 4.85 365.85 325.20 -38.06% 0.62%  Physical Education 083500 14,103.89 24.78 569.15 505.91 -3.64% 4.90%  Physical Sciences 190100 213.90 0.34 632.88 562.56 7.15% 0.07%  Physics 190100 3,917.90 6.48 604.88 537.67 2.41% 1.36%  Political Science 220700 4,564.81 7.57 602.77 535.79 2.06% 1.59%  Psychology 200100 7,083.80 11.65 607.91 540.37 2.93% 2.46%  Radiologic Technology 122500 1,978.36 5.75 344.12 305.89 -41.74% 0.69%  Real Estate Escrow 051100 782.00 1.43 545.80 485.16 7.59% 0.27%  Recreation 083600 248.20 0.41 606.32 538.95 2.666% 0.09%  Sign Language/Inter Training 085000 2,260.14 5.33 424.00 376.89 -28.21% 0.78%  Sociology 220800 3,452.19 6.29 548.81 487.83 7.08% 1.20%  Special Resource Center 080900 946.82 2.82 335.17 297.93 -43.25% 0.33%  Speech Communication 150600 7,280.60 14.16 514.13 457.01 -12.95% 2.53%  Theatre 100600 2,275.65 4.32 527.11 468.54 -10.75% 0.79%  Women's Studies 220110 340.00 0.41 830.57 738.28 40.63% 0.12%								
Office Administration         051440         540.60         1.64         330.15         293.47         -44.10%         0.19%           Philosophy         150900         2,711.50         4.91         551.98         490.65         -6.54%         0.94%           Photography         101100         1,774.70         4.85         365.85         325.20         -38.06%         0.62%           Physical Education         083500         14,103.89         24.78         569.15         505.91         -3.64%         4.90%           Physical Sciences         190100         213.90         0.34         632.88         562.56         7.15%         0.07%           Physics         190100         3,917.90         6.48         604.88         537.67         2.41%         1.36%           Political Science         220700         4,564.81         7.57         602.77         535.79         2.05%         1.59%           Psychology         200100         7,083.80         11.65         607.91         540.37         2.93%         2.46%           Radiologic Technology         122500         1,978.36         5.75         344.12         305.89         -41.74%         0.69%           Real Estate Escrow         051100         <								
Philosophy         150900         2,711.50         4.91         551.98         490.65         -6.54%         0.94%           Photography         101100         1,774.70         4.85         365.85         325.20         -38.06%         0.62%           Physical Education         083500         14,103.89         24.78         569.15         505.91         -3.64%         4.90%           Physical Sciences         190100         213.90         0.34         632.88         562.56         7.15%         0.07%           Physics         190100         3,917.90         6.48         604.88         537.67         2.41%         1.36%           Political Science         220700         4,564.81         7.57         602.77         535.79         2.06%         1.59%           Psychology         200100         7,083.80         11.65         607.91         540.37         2.93%         2.46%           Radiologic Technology         122500         1,978.36         5.75         344.12         305.89         -41.74%         0.69%           Real Estate Escrow         051100         782.00         1.43         545.80         485.16         -7.59%         0.27%           Recreation         083600         248.20 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Photography         101100         1,774.70         4.85         365.85         325.20         -38.06%         0.62%           Physical Education         083500         14,103.89         24.78         569.15         505.91         -3.64%         4.90%           Physical Sciences         190100         213.90         0.34         632.88         562.56         7.15%         0.07%           Physics         190100         3,917.90         6.48         604.88         537.67         2.41%         1.36%           Political Science         220700         4,564.81         7.57         602.77         535.79         2.06%         1.59%           Psychology         200100         7,083.80         11.65         607.91         540.37         2.93%         2.46%           Radiologic Technology         122500         1,978.36         5.75         344.12         305.89         -41.74%         0.69%           Real Estate Escrow         051100         782.00         1.43         545.80         485.16         7.59%         0.27%           Recreation         083600         248.20         0.41         606.32         538.95         2.66%         0.09%           Respiratory Care/Therapy         121000 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
Physical Education         083500         14,103,89         24,78         569,15         505,91         -3,64%         4,90%           Physical Sciences         190100         213,90         0.34         632,88         562,56         7,15%         0.07%           Physics         190100         3,917,90         6.48         604,88         537,67         2.41%         1.36%           Political Science         220700         4,564,81         7,57         602,77         535,79         2.06%         1.59%           Psychology         200100         7,083,80         11.65         607,91         540,37         2.93%         2.46%           Radiologic Technology         122500         1,978,36         5,75         344,12         305,89         -41,74%         0.69%           Real Estate Escrow         051100         782,00         1.43         545,80         485,16         7,59%         0.27%           Recreation         083600         248,20         0.41         606,32         538,95         2.66%         0.09%           Respiratory Care/Therapy         121000         940,30         3.16         297,67         264,59         -49,60%         0.33%           Sign Language/Inter Training         085000 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Physics         190100         3,917.90         6.48         604.88         537.67         2.41%         1.36%           Political Science         220700         4,564.81         7.57         602.77         535.79         2.06%         1.59%           Psychology         200100         7,083.80         11.65         607.91         540.37         2.93%         2.46%           Radiologic Technology         122500         1,978.36         5.75         344.12         305.89         -41.74%         0.69%           Real Estate Escrow         051100         782.00         1.43         545.80         485.16         -7.59%         0.27%           Recreation         083600         248.20         0.41         606.32         538.95         2.66%         0.09%           Respiratory Care/Therapy         121000         940.30         3.16         297.67         264.59         -49.60%         0.33%           Sign Language/Inter Training         085000         2,260.14         5.33         424.00         376.89         -28.21%         0.78%           Sociology         220800         3,452.19         6.29         548.81         487.83         -7.08%         1.20%           Special Resource Center         080900 </td <td></td> <td></td> <td></td> <td></td> <td>569.15</td> <td></td> <td></td> <td></td>					569.15			
Political Science 220700 4,564.81 7.57 602.77 535.79 2.06% 1.59% Psychology 200100 7,083.80 11.65 607.91 540.37 2.93% 2.46% Radiologic Technology 122500 1,978.36 5.75 344.12 305.89 -41.74% 0.69% Real Estate Escrow 051100 782.00 1.43 545.80 485.16 7.59% 0.27% Recreation 083600 248.20 0.41 606.32 538.95 2.66% 0.09% Respiratory Care/Therapy 121000 940.30 3.16 297.67 264.59 -49.60% 0.33% Sign Language/Inter Training 085000 2,260.14 5.33 424.00 376.89 -28.21% 0.78% Sociology 220800 3,452.19 6.29 548.81 487.83 7.08% 1.20% Special Resource Center 080900 946.82 2.82 335.17 297.93 -43.25% 0.33% Specch Communication 150600 7,280.60 14.16 514.13 457.01 -12.95% 2.53% Theatre 100600 2,275.65 4.32 527.11 468.54 -10.75% 0.79% Tutor Training 493009 224.58 0.08 2.952.79 2,624.71 399.94% 0.08% Welding 095650 2,215.04 3.78 585.22 520.20 -0.92% 0.77% Women's Studies 220110 340.00 0.41 830.57 738.28 40.63% 0.12%	Physical Sciences	190100	213.90	0.34	632.88	562.56	7.15%	0.07%
Psychology         20100         7,083.80         11.65         607.91         540.37         2.93%         2.46%           Radiologic Technology         122500         1,978.36         5.75         344.12         305.89         -41.74%         0.69%           Real Estate Escrow         051100         782.00         1.43         545.80         485.16         -7.59%         0.27%           Recreation         083600         248.20         0.41         606.32         538.95         2.66%         0.09%           Respiratory Care/Therapy         121000         940.30         3.16         297.67         264.59         -49.60%         0.33%           Sign Language/Inter Training         085000         2,260.14         5.33         424.00         376.89         -28.21%         0.78%           Sociology         220800         3,452.19         6.29         548.81         487.83         -7.08%         1.20%           Special Resource Center         080900         946.82         2.82         335.17         297.93         -43.25%         0.33%           Specch Communication         150600         7,280.60         14.16         514.13         457.01         -12.95%         2.53%           Theatre         100	Physics	190100	3,917.90	6.48	604.88	537.67	2.41%	1.36%
Radiologic Technology         122500         1,978.36         5.75         344.12         305.89         -41.74%         0.69%           Real Estate Escrow         051100         782.00         1.43         545.80         485.16         -7.59%         0.27%           Recreation         083600         248.20         0.41         606.32         538.95         2.66%         0.09%           Respiratory Care/Therapy         121000         940.30         3.16         297.67         264.59         -49.60%         0.33%           Sign Language/Inter Training         085000         2,260.14         5.33         424.00         376.89         -28.21%         0.78%           Sociology         220800         3,452.19         6.29         548.81         487.83         -7.08%         1.20%           Special Resource Center         080900         946.82         2.82         335.17         297.93         -43.25%         0.33%           Speech Communication         150600         7,280.60         14.16         514.13         457.01         -12.95%         2.53%           Theatre         100600         2,275.65         4.32         527.11         468.54         -10.75%         0.79%           Tutor Training         <	Political Science	220700	4,564.81	7.57	602.77	535.79	2.06%	1.59%
Real Estate Escrow         051100         782.00         1.43         545.80         485.16         -7.59%         0.27%           Recreation         083600         248.20         0.41         606.32         538.95         2.66%         0.09%           Respiratory Care/Therapy         121000         940.30         3.16         297.67         264.59         -49.60%         0.33%           Sign Language/Inter Training         085000         2,260.14         5.33         424.00         376.89         -28.21%         0.78%           Sociology         220800         3,452.19         6.29         548.81         487.83         -7.08%         1.20%           Special Resource Center         080900         946.82         2.82         335.17         297.93         -43.25%         0.33%           Speech Communication         150600         7,280.60         14.16         514.13         457.01         -12.95%         2.53%           Theatre         100600         2,275.65         4.32         527.11         468.54         -10.75%         0.79%           Tutor Training         493009         224.58         0.08         2,952.79         2,624.71         399.94%         0.08%           Welding         095650 <td>Psychology</td> <td>200100</td> <td>7,083.80</td> <td>11.65</td> <td>607.91</td> <td>540.37</td> <td>2.93%</td> <td>2.46%</td>	Psychology	200100	7,083.80	11.65	607.91	540.37	2.93%	2.46%
Recreation         083600         248.20         0.41         606.32         538.95         2.66%         0.09%           Respiratory Care/Therapy         121000         940.30         3.16         297.67         264.59         -49.60%         0.33%           Sign Language/Inter Training         085000         2,260.14         5.33         424.00         376.89         -28.21%         0.78%           Sociology         220800         3,452.19         6.29         548.81         487.83         -7.08%         1.20%           Special Resource Center         080900         946.82         2.82         335.17         297.93         -43.25%         0.33%           Speech Communication         150600         7,280.60         14.16         514.13         457.01         -12.95%         2.53%           Theatre         100600         2,275.65         4.32         527.11         468.54         -10.75%         0.79%           Tutor Training         493009         224.58         0.08         2,952.79         2,624.71         399.94%         0.08%           Welding         095650         2,215.04         3.78         585.22         520.20         -0.92%         0.77%           Women's Studies         22010	Radiologic Technology	122500	1,978.36	5.75	344.12	305.89	-41.74%	0.69%
Respiratory Care/Therapy         121000         940.30         3.16         297.67         264.59         -49.60%         0.33%           Sign Language/Inter Training         085000         2,260.14         5.33         424.00         376.89         -28.21%         0.78%           Sociology         220800         3,452.19         6.29         548.81         487.83         -7.08%         1.20%           Special Resource Center         080900         946.82         2.82         335.17         297.93         -43.25%         0.33%           Speech Communication         150600         7,280.60         14.16         514.13         457.01         -12.95%         2.53%           Theatre         100600         2,275.65         4.32         527.11         468.54         -10.75%         0.79%           Tutor Training         493009         224.58         0.08         2,952.79         2,624.71         399.94%         0.08%           Welding         095650         2,215.04         3.78         585.22         520.20         -0.92%         0.77%           Women's Studies         22010         340.00         0.41         830.57         738.28         40.63%         0.12%	Real Estate Escrow					485.16	-7.59%	
Sign Language/Inter Training         085000         2,260.14         5.33         424.00         376.89         -28.21%         0.78%           Sociology         220800         3,452.19         6.29         548.81         487.83         7.7.08%         1.20%           Special Resource Center         080900         946.82         2.82         335.17         297.93         -43.25%         0.33%           Speech Communication         150600         7,280.60         14.16         514.13         457.01         -12.95%         2.53%           Theatre         100600         2,275.65         4.32         527.11         468.54         -10.75%         0.79%           Tutor Training         493009         224.58         0.08         2,952.79         2,624.71         399.94%         0.08%           Welding         095650         2,215.04         3.78         585.22         520.20         -0.92%         0.77%           Women's Studies         22010         340.00         0.41         830.57         738.28         40.63%         0.12%								
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Welding         095650         2,215.04         3.78         585.22         520.20         -0.92%         0.77%           Women's Studies         220110         340.00         0.41         830.57         738.28         40.63%         0.12%								
Women's Studies 220110 340.00 0.41 830.57 738.28 40.63% 0.12%								
	_							
		220110						

Source: El Camino Community College District, Office of Academic Affairs

# **Space Program**

#### **Enrollment and WSCH Forecasts**

Long range enrollment and weekly student contact hours (WSCH) forecasts are issued by the California Community Colleges Chancellor's Office (CCCCO) each year and projects enrollment growth for the next 10 years. It includes historical data from the previous years and projects total enrollment and WSCH for the College using an average anticipated growth factor.

These forecasts provide the basis for establishing eligibility for funding of facilities through the capital outlay program and were used as the basis for developing the Facilities Master Plan Space Program. The base year used for this analysis is the fall semester of the 2015-16 academic year.

**Table 1: Projected Enrollment** 

Year	Enrollment	WSCH	Other
2015	24,522	288,361	Actual
2025	27,273	327,687	Projected*

<sup>\*</sup> Projections from CCCCO - January 2015

# **Space Inventory**

The space inventory of facilities is an important tool for planning and managing college campuses. The Facilities Utilization Space Inventory Options Net (FUSION) is a database of all California Community Colleges facilities and includes descriptive and quantifiable data for all buildings and space on campus. This information is essential for developing the annual Five Year Capital Construction Plan, planning for capital outlay construction projects, analyzing space utilization, and projecting future facilities space needs. The CCCCO mandates annual updates of the space inventory for all facilities to reflect changes since the prior submittal.

### **Existing Building Inventory**

Many of the original campus buildings were built in the 1950s and are more than 50 years old. Several of these have been renovated or replaced with new facilities. Recent new construction includes the Humanities Building (2007), the Learning Resource Center expansion (2009), the Math Business Allied Health (MBA) Building (2014), the Center for Applied Technology (CAT) Building (2015), and the Stadium and Athletic Complex (2016). A major reconstruction to the original Math/Computer Science (MCS) Building resulted in the opening of the new Industry Technology Education Center (ITEC) in (2015).

The El Camino College Facilities Space Inventory includes important data used for planning and managing space on a college campus. The space inventory includes descriptive and quantifiable data for all buildings and space on campus and is updated by the college annually to reflect current information.

The spaces within each building are classified according to the CA Community College Space Inventory Handbook. State building guidelines require at least 65% of the gross square footage (GSF) within a building to be assignable to be considered efficient. Assignable square footage (ASF) is defined as space that is dedicated to lecture, laboratory, office and conference, library, media/audio/television or PE use. All other spaces within the buildings (including corridors, stairwells and restrooms), are included in the gross square footage.

The campus currently has a facilities inventory of 837,370 ASF of facility space and approximately 1,250,000 of GSF. An overall assessment of current facilities indicates that the College has a sufficient volume of space to meet current, as well as a majority of future space demands. However, much of this space is inefficient. Many of the classroom buildings are oversized for current class sizes. State building guidelines require at least 65% of the gross square footage within a building to be dedicated to lecture, laboratory, office and conference, library, or media/audio/television use to be considered efficient. Currently, 50% of the buildings on campus have ASF to gross square footage ratios that are below the state building requirements for state funding of new construction.

The college prepares a Five Year Capital Construction Plan each year in order to communicate with the Chancellor's Office (CCCCO) and define the plan for facilities projects in the upcoming years. The CCCCO uses this information to determine facilities funding qualifications through the analysis of how the college is using five key areas of space lecture, lab, office, library and instructional media. Areas that exhibit capacity load ratios under 100% are considered as qualifying for state supported funding and areas that exceed the 100% ratio do not qualify for state supported funding.

Figure E includes a table summarizing the existing building inventory on the El Camino College campus.

**Figure E: Existing Building Report** 

Bldg #	Building Name	Constr. Year	Total Rooms	Total Stations	Total Room ASF	Total OGSF	% Efficiency
1	ADMINISTRATION	1950	65	620	40,256	50,358	79.9%
2	STUDENT SRVCS CENTER	1950	113	797	34,594	43,475	79.6%
3	LIBRARY	1952	81	362	64,210	72,435	88.6%
4	ART	1955	151	1,165	58,635	112,006	52.3%
6	NATURAL SCIENCES	1952	46	463	21,520	27,648	77.8%
8	MUSIC	1955	90	1,449	44,332	82,366	53.8%
9	HEALTH CENTER	1955	49	398	45,384	65,227	69.6%
10	CHILD DEVELOPMENT	1992	18		5,903	6,688	88.3%
	CENTER						
13	FACILITIES & RECEIVING	1958	40	17	28,607	36,224	79.0%
14	HUMANITIES	2007	111	2,077	52,101	85,644	60.8%
15	I TECH BUILDING	1969	103	1,236	66,972	107,533	62.3%
16	CHEMISTRY	1956	49	540	23,493	33,939	69.2%
17	PHYSICS	1956	13	140	7,453	15,181	49.1%
19	PLANETARIUM	1969	4	77	3,684	3,953	93.2%
20	AUDITORIUM	1967	34	2,164	40,527	53,591	75.6%
21	MENS-GYM	1958	38	238	52,913	97,026	54.5%
23	SOCIAL SCIENCE	1960	37	1,097	22,825	34,081	67.0%
25	COMMUNICATIONS	1962	67	608	21,945	36,950	59.4%
26	BOOKSTORE	1974	66	468	43,732	53,416	81.9%
51	CONSTRUCTION TECH	1982	8	49	5,907	11,143	53.0%
53	CAMPUS POLICE	2000	11		2,528	4,536	55.7%
65	LIFE SCIENCES	1956	17	204	9,158	13,198	69.4%
220	ACTIVITIES CENTER	1950	16	281	22,959	25,875	88.7%
221	LEARNING RESOURCE	2008	18	158	14,458	21,424	67.5%
	CENTER						
222	MBA	2013	169	2,814	75,758	115,000	65.9%
223	FIRE ACADEMY	1970	6	35	3,471	3,853	90.1%
224	CAT BUILDING	2015	26	5	24,045	39,318	61.2%
27 BUILI	DINGS ON CAMPUS		1,446	17,462	837,370	1,252,088	66.9%

Source: El Camino Community College District Facility Building Report 17 Summary 2016, \* OGFT refers to overall gross square footage

The campus currently has a facilities inventory of 837,370 assignable square feet (ASF) of facility space and approximately 1,250,000 of gross square footage (GSF). An overall assessment of current facilities indicates that the College has a sufficient volume of space to meet current, as well as a majority of future space demands. However, much of this space is inefficient. Many of the classroom buildings are oversized for current class sizes.

State building guidelines require at least 65 percent of the gross square footage within a building to be dedicated to lecture, laboratory, office and conference, library, or media/audio/television use to be considered efficient. Currently, 50 percent of the buildings on campus have ASF to gross square footage ratios that are below the state building requirements for state funding of new construction.

# **Room Use Categories**

The spaces within each building are classified according to the California Community Colleges Space Inventory Handbook. Rooms are assigned a space type based on how the room is used the majority of the time. Standard Room Use categories included in the space inventory are listed in Figure F

ASF is defined as space that is assigned to, or available for assignment to an occupant, including every type of space functionally usable by an occupant. All other spaces within the buildings (including corridors, stairwells and restrooms), are included in the gross square footage. State building guidelines require at least 65 percent of the gross square footage within a building to be assignable to be considered efficient.

**Figure F: ASF Room Use Categories** 

Room Use	Lecture	Lab	Office	Library	Instructional Media	Other
Numbers	100s	200s	300s	400s	530s	520, 540-800s
Description	Classrooms Support Spaces	Labs Support Spaces	Offices Support Spaces All offices including administrative and student services	Library Study Tutorial Support Spaces	AV/TV Technology Support Spaces	PE Assembly Food Service Lounge Bookstore Meeting Rooms Data Processing Physical Plant Health Services

Source: Space Inventory Handbook

### **Space Utilization and Planning Standards**

Title 5 of the California Administrative Code prescribes standards for the utilization and planning of educational spaces on public community college campuses. These standards, when applied to the total number of students, or weekly student contact hours, produce total capacity requirements that are expressed in assignable square feet (space available for assignment to occupants excluding circulation, restrooms, etc.).

The Title 5 space standards used to determine both existing and future capacity requirements are listed in the table below. Each component of these standards is applied with an appropriate form of enrollment to produce a total ASF capacity requirement for each category of space. The sum of these categories represents the total building requirements for the College. Figure G lists the prescribed state standards.

**Figure G: State Space Standards** 

Category	Formula	Rates/ Allowances
Classrooms	ASF/Student Station	15
	Station Utilization Rate	66%
	Average hours room/week	53
Labs	ASF/Student Station*	
	Station Utilization Rate	85%
	Average hours room/week	27.5
Offices/ Conference Rooms	ASF per FTEF	140
Library/Learning Resource Center	Base ASF Allowance	3,795
	ASF/1st 3,000 DGE	3.83
	ASF/3,001-9,000 DGE	3.39
	ASF/ > 9,000 DGE	2.94
Instructional Media AV/ TV/ Radio	Base ASF allowance	3,500
	ASF/1st 3,000 DGE	1.50
	ASF/3,001-9,000 DGE	0.75
	ASF / > 9,000 DGE	0.25
* varies per TOPS code		

Source: Title 5 Space Standards

### **Capacity Load Ratios**

Capacity load ratios represent the direct relationship between the amount of space available, by type, which may be used to serve students, and the number of students participating in campus programs. The diagrams in Figure H graphically illustrate the various levels of utilization for capacity load room categories on a campus.

The space type "other" includes a number of spaces on campus that are considered to be non-capacity load categories. These are spaces that are not analyzed by the CCCCO in relation to utilization and efficiency, but are important as part of the College's inventory related to facilities.

- The capacity/load ratio is the measure of the space utilization efficiency according to Title 5 standards.
- Assumed utilization for classrooms is 53 hours per week, utilization for labs varies per discipline.
- Capacity/load ratios are rolled up and measured as an aggregate by room use category.

#### Figure H: Capacity Load Ratio Diagrams

# of seats = # of students

100% capacity / load

RIGHT SIZED

OVER CAPACITY

UNDER CAPACITY

OVER CAPACITY

UNDER CAPACITY

OVER C

# of seats > # of students

over 100% capacity / load

# of seats < # of students

under 100% capacity / load

### **Five-Year Capital Construction Plan**

The College prepares a Five-Year Capital Construction Plan each year in order to communicate with the CCCCO and define the plan for facilities projects in the upcoming years. The CCCCO uses this information to determine facilities funding qualifications through the analysis of how the College is using five key areas of space – lecture, lab, office, library and instructional media. Areas that exhibit capacity load ratios under 100 percent are considered as qualifying for statesupported funding and areas that exceed the 100 percent ratio do not qualify for state-supported funding.

Presently the capacity load ratios for most categories of space on the El Camino College campus exceed 100 percent, indicating a low potential to qualify for state-funded growth projects. However, there are opportunities to qualify for state funding to renovate or replace aging facilities and the College is exploring these opportunities now.

Figure I lists the capacity loads for key space categories using the actual 2015 planning data and the projected 2020 and 2025 forecasts from the CCCCO.

**Figure I: Capacity Load Forecasts** 

Space Type	2015	2025	2025
Lecture	159%	142%	133%
Lab	131%	110%	105%
Office	148%	125%	116%
Library	102%	99%	95%
Instructional Media	53%	55%	73%

Source: Fusion

### **Projected Space Needs**

Using data from the previous tables and calculating formulas for prescribed state space standards, Figure J provides a net analysis of ASF required for all capacity load categories on campus.

The 2016 Inventory column includes the totals by space type as listed in the most recent space inventory. The Forecasted Space Need column lists the projected need based on enrollment and WSCH forecasts from the CCCCO. The Difference listed in the right column highlights the space to be addressed with the implementation of the Facilities Master Plan. A positive number indicates an excess of space and a negative number indicates a need for additional space.

Figure J: 2025 Master Plan Program

Space Type	2015	Forecasted	Difference
	Inventory	Space Need	
Lecture	143,079,395	146,319	-3,240
Lab	203,258	199,320	33,938
Office	117,856	87,865	30,171
Library	67,326	54,279	13,047
Instructional Media	7,983	14,086	-6,103
Top Cap Load Categories	539,502	501,689	37,813

Source: Fusion

### **Facilities Master Plan**

Following the review and analysis of the planning data summarized above, a series of facilities planning priorities were developed and used to guide discussions and lead toward the development of the 2016 Facilities Master Plan Update.

#### **Priorities**

#### **Maximize functional Space**

- Renovate facilities
- Address program needs

#### **Eliminate Non-Functional Space**

- Remove temporary buildings
- Replace aging facilities

#### **Simplify Implementation**

- Limit number of moves
- Minimize need for swing space

#### Improve efficiency/utilization of facilities

- Consolidate related programs
- Create flexible, interdisciplinary space

### Right-size the campus to address program needs

- Align the projects space inventory with state guidelines
- Position ECC to maximize funding (state and local)

## 2016 Facilities Master Plan Update

In the summer of 2016 an updated Facilities Master Plan drawing was developed to reflect the College's accomplishments since 2012. The 2016 Facilities Master Plan Update presents an overall picture of the future developed campus and includes recommendations for renovation and replacement of facilities, and campuswide site improvements.

While drawings in the plan appear specific, the forms are conceptual sketches that highlight the location and purpose of improvements. The final design of each site and facility project will take place as projects are funded and detailed programming and design occurs.

#### **EL CAMINO COLLEGE**



