Compton College
CTE Program and Unit Completion
2012-13 through 2017-18

In 2018-19, the California Community College Chancellor's Office released the new Student Centered Funding Formula that funds colleges partially for student performance, including completing 9 or more Career Technical Education (CTE) units and conferred certificates (16+ units). While Compton College has six years of stable guaranteed funding, time is of the essence to review and understand how the College will fare under this new formula. To inform the college about how best to support student success in the future, the Office Institutional Research (IR) presents findings about Compton student certificate completion and 3-8 unit completion from the last three academic years. This report provides findings from this inquiry and recommendations for next steps.

What certificates are conferred at Compton College? Where might we grow our certificate offering?

Table 1 includes whether or not the certificate is offered at Compton College, the minimum number of units required to receive the certificate, and the number of awards granted to Compton College students over the last three years (i.e., from 2015-16 to 2017-18). These data are pulled from the Chancellor's Office MIS award data.

Findings

- Air Conditioning & Refrigeration, Childhood Education, and Automotive Technology produce the most certificates.
- Five certificates (highlighted in yellow in the table) would qualify for funding under the new funding formula and had ten or more completers in the last three years and are not currently offered at Compton College. Faculty may consider if they want to develop these certificates through the curriculum process.

Table 1 - CTE Program Certificates (2015-2018)

Major/Certificate	Certificate Type	Offered at Compton	Min. Units	Awards in Last 3 Years
Administration of Justice				
Administration of Justice	*Achievement*	*No*	*21*	*19*
Forensics	*Achievement*	*No*	*20*	*3*
Air Conditioning & Refrigeration				
Air Conditioning	Achievement	Yes	17	73
AC & Refrigeration Electric Controls	Achievement	Yes	13	60
HVAC and Refrigeration	Achievement	Yes	39	53

Refrigeration	*Achievement*	*No*	*13*	*71*
Architecture	*Achievement*	*No*	*38*	*5*
Auto Collision Repair/Painting				
Automotive Collision Repair	Achievement	Yes	24	28
Automotive Painting and Refinishing	Achievement	Yes	24	0
Automotive Accident Reconstruction	Accomplishment	Yes	6	3
Damage Estimating	Accomplishment	Yes	6	--
Automotive Technology				
Brakes/Suspension/Drive Train Technician	Achievement	Yes	16	37
Engine Rebuilding/Repair Technician	Achievement	Yes	12	15
Automotive Technician I	Achievement	Yes	36	23
Automotive Technician II	Achievement	Yes	42	2
Tune-Up Technician	Achievement	Yes	16	48
Automotive Air Conditioning Technician	Accomplishment	Yes	3	26
Brakes & Suspension Technician	Accomplishment	Yes	8	64
Engine Rebuilding & Repair Technician	Accomplishment	Yes	8	43
Transmission & Drive Train Technician	Accomplishment	Yes	8	50
Business				
Accounting	*Achievement*	*No*	*27*	*4*
Business Management	Achievement	Yes	18	15
Retail Management	Achievement	Yes	24	0
Marketing	Achievement	Yes	24	3
Office Applications Specialist	Achievement	Yes	20	5
Childhood Education				
Early Childhood Education	Achievement	Yes	18	176
Early Intervention Assistant	Achievement	Yes	30	13
Special Education Assistant	*Achievement*	*No*	*27*	*15*
Computer Aided Design/Drafting				
Computer Aided Design/Drafting	*Achievement*	*No*	*26.5*	*1*
AutoCAD Mechanical Drafting Trainee	*Accomplishment*	*No*	*6*	*1*
Computer Information Systems				
Business Programming	*Achievement*	*No*	*22*	*1*
Computer Systems Applications	Achievement	Yes	21	4
Computer Science	*Achievement*	*No*	*21*	*12*
Construction Technology				
Construction Technology	*Achievement*	*No*	*34*	*6*
Cabinet and Millwork	*Accomplishment*	*No*	*10.5*	*1*
Euro Hardware	*Accomplishment*	*No*	*8.5*	*1*
Furniture Design & Fabrication	*Accomplishment*	*No*	*8.5*	*1*
Cosmetology				
Cosmetology Level II	Achievement	Yes	41	26
Cosmetology Level I	Accomplishment	Yes	13	61
Digital Arts	*Achievement*	*No*	*31*	*3*
Electronics/Computer Hardware				
CPU Hardware Electronics Technician	*Achievement*	*No*	*29*	*3*
Electronics Engineering Technician	*Achievement*	*No*	*27*	*4*

CPU Hardware Technician	*Accomplishment*	*No*	*15*	*4*
Electronics Technician	*Accomplishment*	*No*	*16*	*4*
Robotics	*Accomplishment*	*No*	*12*	*5*
Environmental Horticulture	*Achievement*	*No*	*23*	*1*
Environmental Technology	*Accomplishment*	*No*	*13*	*3*
Fashion				
Fashion Stylist	*Achievement*	*No*	*21*	*1*
Film/Video Production	*Achievement*	*No*	*21*	*2*
Fire & Emergency Technology				
Fire & Emergency Technology	*Achievement*	*No*	*27*	*13*
Fire Academy	*Achievement*	*No*	*27*	*4*
Paramedical Technician	*Achievement*	*No*	*33*	*2*
Journalism	*Achievement*	*No*	*21*	*1*
Machine Tool Technology				
CNC Machine Operator	Achievement	Yes	16	15
Machinist	Achievement	Yes	28	9
Numerical Control Programmer	*Achievement*	*No*	*33*	*6*
Manufacturing Technology	*Achievement*	*No*	*37*	*1*
Paralegal Studies	*Achievement*	*No*	*33*	*8*
Photography	*Achievement*	*No*	*26*	*1*
Radiologic Technology	*Accomplishment*	*No*	*9.5*	*23*
Real Estate	*Achievement*	*No*	*24*	*3*
Respiratory Care	*Achievement*	*No*	*26*	*20*
Sign Language/Interpreter Training	*Achievement*	*No*	*39*	*7*
Welding	Achievement	Yes	26	16
Total Awards				***1,128***

How many students are earning low levels of CTE units? Where might we grow our certificate offering?

Table 2 reflects the number of students earning between 3 and 8 units in a CTE discipline anytime between 2012-13 and 2016-17, who did not receive a program award, and were not enrolled in any coursework as of the 2017-18 academic year. These course enrollment data were mined from local course enrollment data.

Findings

- Hundreds to thousands of students earn between 3-8 CTE units without earning a program award. Faculty may consider how to encourage these students to take 9 units or pursue a completion in any area.

Table 2 – Students with Fewer Than 9 CTE Units by Program (2012-2017)

Major	Offered at Compton	Min. Units	Students with 3-8 CTE Units
Computer Information Systems	Some (Achievement)	21 to 23	2,077
Childhood Education	Some (Achievement)	18 to 30	2,066
Business	Some (Achievement)	18 to 27	1,956
Machine Tool Technology	Some (Achievement)	16 to 33	235
Welding	Some (Achievement)	14 to 26	193
Air Conditioning & Refrigeration	Some (Achievement)	7 to 39	134
Automotive Technology	Yes	3 to 42	106
Auto Collision Repair/Painting	Yes	6 to 24	93
Cosmetology	Yes	13 to 41	8
Film/Video Production	No	21	811
Administration of Justice	No	9 to 21	672
Sign Language/Interpreter Training	No	39	552
Fire & Emergency Technology	No	12 to 33	339
Photography	No	26	284
Journalism	No	21	278
Real Estate	No	24 to 27	233
Computer Science	No	21	227
Computer Aided Design/Drafting	No	6 to 26.5	150
Radiologic Technology	No	9.5	149
Fashion	No	21 to 34	137
Digital Arts	No	31	128
Architecture	No	38	125
Electronics/Computer Hardware	No	12 to 29	107
Engineering Technology	No	12 to 29	98
Construction Technology	No	8 to 34	73
Environmental Horticulture	No	23	52
Respiratory Care	No	26	44
Environmental Technology	No	13	24
Paralegal Studies	No	33	12
Manufacturing Technology	No	37	1
Total Students			*11,364*

Note: This table reflects students who received 3 to 8 CTE units between 2012-13 and 2016-17 but did not enroll in the 2017-18 academic year. Students with coursework in multiple CTE programs but fewer than 9 units in each program are counted multiple times (once for each program where they received between 3 and 8 units).

Next Steps

- Faculty need to understand these data in relation to their own programs to consider how they can contribute to Compton College success under the new funding formula. IR will post this report to the planning website so that faculty can consider it when deciding which curriculum and awards to develop.

- College committees should consider how to encourage students to complete the 9th unit of CTE education if it will support student outcomes and their ability to earn a living wage.