

Program Endorsement Brief: 0505.00/Business Administration
Business Administration
Business and Management
Business Fundamentals

Orange County Center of Excellence, March 2022

Summary Analysis

Program Endorsement:	Endorsed: All Criteria Met <input type="checkbox"/>	Endorsed: Some Criteria Met <input checked="" type="checkbox"/>	Not Endorsed <input type="checkbox"/>
Program Endorsement Criteria			
Supply Gap:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> (see comments below)	
Living Wage: (Entry-Level, 25 th)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Education:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Emerging Occupation(s)			
	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

The Orange County Center of Excellence for Labor Market Research (COE) prepared this report to provide Los Angeles/Orange County regional labor market supply and demand data related to four middle-skill occupations: *administrative services and facilities managers* (11-3011), *first-line supervisors of office and administrative support workers* (43-1011), *order clerks* (43-4151) and *office clerks, general* (43-9061), and one above middle-skill occupation: *project management specialists and business operations specialists, all other* (13-1198). Middle-skill occupations typically require some postsecondary education, but less than a bachelor’s degree.¹

Although the occupation *administrative service and facilities managers* typically requires a bachelor’s degree, it is considered middle-skill because approximately one-third of workers in the field have completed some college or an associate degree. Additionally, though *project management specialists and business operations specialists, all other* is an above middle-skill occupation, it is included because the other occupations included in this report are pathways to that occupation and it is directly related to the occupational goals of this proposed program. This report is intended to help determine whether there is demand in the local labor market that is not being met by the supply from community college programs that align with the relevant occupations.

Based on the available data supply appears to be met for these middle-skill business occupations in the region. Additionally, while the majority of annual openings for the middle-skill occupations in this report typically require a high school diploma or equivalent, more than one-third of workers in the field have completed some college or an associate degree as their highest level of education. However, the majority of annual openings have entry-level wages that are lower than

¹ The COE classifies middle-skill jobs as the following:

- All occupations that require an educational requirement of some college, associate degree or apprenticeship;
- All occupations that require a bachelor’s degree, but also have more than one-third of their existing labor force with an educational attainment of some college or associate degree; or
- All occupations that require a high school diploma or equivalent or no formal education, but also require short- to long-term on-the-job training where multiple community colleges have existing programs.

the living wage in both Los Angeles and Orange counties. **Therefore, due to some of the criteria being met, the COE endorses this proposed program.** Detailed reasons include:

Demand:

- **Supply Gap Criteria** – Over the next five years, there is projected to be **23,282 middle-skill jobs available annually** in the region due to retirements and workers leaving the field, **which is more than the 22,774 awards conferred annually** by educational institutions in the region.
 - However, the labor market information suggests that the **supply has been met for this occupation within the LA/OC region** since the average number of annual awards (supply) is within the COE's 25% margin of annual job openings (demand).
 - Furthermore, general business management and business administration programs at community college and four-year institutions train for nearly 20 middle-skill and above middle-skill business and management-related occupations that are not included in this report. There is projected to be over 32,000 annual job openings for these occupations. Therefore, **supply for the middle-skill business occupations included in this report is overstated.**
- **Living Wage Criteria** –Within Orange County, **the majority (68%) of annual job openings** for these middle-skill business occupations have **entry-level wages below the county's living wage (\$20.63/hour).**²
- **Educational Criteria** –Within the LA/OC region, **89% of the annual job openings** for middle-skills occupations related to business **typically require a high school diploma or equivalent.**
 - However, the national-level educational attainment data indicates **between 37.2% and 44.5% of workers in the field have completed some college or an associate degree** as their highest level of education.

Supply:

- There are **29 community colleges** in the LA/OC region that issue awards related to the business occupations included in this report, conferring an average of **10,135 awards annually** between 2017 and 2020.
- Between 2016 and 2019, there was an average of **12,639 awards conferred annually** in related training programs by non-community college institutions, all of which were generated by **49 individual four-year colleges throughout** the region.

Occupational Demand

Exhibit 1 shows the five-year occupational demand projections for these middle-skill business occupations. In Los Angeles/Orange County, the number of jobs related to these occupations is projected to decrease by 3% through 2025. However, there will be nearly 23,300 job openings per year through 2025 due to retirements and workers leaving the field.

² Living wage data was pulled from California Family Needs Calculator on 1/10/2022. For more information, visit the California Family Needs Calculator website: <https://insightcced.org/family-needs-calculator/>.

Exhibit 1: Middle-Skill occupational demand in Los Angeles and Orange Counties³

Geography	2020 Jobs	2025 Jobs	2020-2025 Change	2020-2025 % Change	Annual Openings
Los Angeles	160,277	154,198	(6,079)	(4%)	16,853
Orange	60,716	59,245	(1,471)	(2%)	6,430
Total	220,994	213,444	(7,550)	(3%)	23,282

Wages

The labor market endorsement in this report considers the entry-level hourly wages for the group of middle-skill business occupations in Orange County as they relate to the county’s living wage. Los Angeles County wages are included below in order to provide a complete analysis of the LA/OC region. Detailed wage information, by county, is included in Appendix A.

Orange County: The majority (68%) of annual openings for the group of middle-skill business occupations have entry-level wages below the living wage for one adult (\$20.63 in Orange County). Typical entry-level hourly wages are in a range between \$14.54 and \$36.61. *Order clerks* and *office clerks, general* have entry-level wages that are below California’s current minimum wage (\$14.00/hour for employers with 25 employers or less; \$15.00/hour for employers with 26 or more employees).⁴ Experienced workers can expect to earn wages between \$23.08 and \$65.76, which are higher than the living wage estimate. Orange County’s average wages are below the average statewide wage of \$25.53 for these occupations.

The typical entry-level hourly wages for the above middle-skill occupation *project management specialists and business operations specialists, all other* are \$25.53, which is above the living wage for one adult (\$20.63 in Orange County). Experienced workers can expect to earn wages of \$51.58, which is higher than the living wage estimate. Orange County’s average wages are below the average statewide wage of \$42.70 for this occupation.

Los Angeles County: The majority (68%) of annual openings for the group of middle-skill business occupations have entry-level wages below the living wage for one adult (\$18.10 in Los Angeles County). Typical entry-level hourly wages are in a range between \$14.22 and \$37.43. *Order clerks* and *office clerks, general* have entry-level wages that are below California’s current minimum wage (\$14.00/hour for employers with 25 employers or less; \$15.00/hour for employers with 26 or more employees). Experienced workers can expect to earn wages between \$23.20 and \$67.24, which are higher than the living wage estimate. Los Angeles County’s average wages are below the average statewide wage of 25.53 for these occupations.

The typical entry-level hourly wages for the above middle-skill occupation *project management specialists and business operations specialists, all other* are \$26.06, which is above the living wage for one adult (\$18.10 in Los Angeles County). Experienced workers can expect to earn wages of

³ Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

⁴Wage data is based on data collected over the previous three years. This historical data is a “point-in-time” estimate and does not reflect recent changes in minimum wage laws. https://www.dir.ca.gov/dlse/FAQ_MinimumWage.htm

\$52.72, which is higher than the living wage estimate. Los Angeles County's average wages are below the average statewide wage of \$42.70 for this occupation

Job Postings

There were 31,642 online job postings related to the group of middle-skill business occupations listed in the past 12 months. The highest number of job postings were for office assistants, office managers, office administrators, and office clerks. The top skills were customer service, scheduling, office management, budgeting, and administrative support. The top three employers, by number of job postings, in the region were Macy's, the University of California, and The Home Depot Incorporated.

There were 5,739 online job postings related to the above middle-skill occupation *project management specialists and business operations specialists, all other* listed in the past 12 months. The highest number of job postings were for e-commerce specialists, e-commerce managers, target security specialists, e-commerce associates and e-commerce assistants. The top skills were e-commerce, customer service, project management, budgeting, and sales. The top three employers, by number of job postings, in the region were Anthem Blue Cross, Target, and Kroger Company.

Educational Attainment

The Bureau of Labor Statistics (BLS) lists a bachelor's degree as the typical entry-level education for *administrative services and facilities managers*, some college, no degree as the typical entry-level education for *order clerks*, and a high school diploma or equivalent as the typical entry-level education for *first-line supervisors of office and administrative support workers and office clerks, general*.

In the LA/OC region, the majority of annual middle-skill job openings (88%) typically require a high school diploma or equivalent. However, the national-level educational attainment data indicates between 37.2% and 44.5% of workers in the field have completed some college or an associate degree as their highest level of education. Of the 61% of middle-skill business job postings listing a minimum education requirement in Los Angeles/Orange County, 54.2% (10,478) requested high school or vocational training, 6.1% (1,175) requested an associate degree, and 37.9% (7,340) requested a bachelor's degree.

The Bureau of Labor Statistics (BLS) lists a bachelor's degree as the typical entry-level education for the above middle-skill occupation *project management specialists and business operations specialists, all other*. Furthermore, the national-level educational attainment data indicates 22.1% of workers in the field have completed some college or an associate degree as their highest level of education. Of the 60% of *project management specialists and business operations specialists, all other* job postings listing a minimum education requirement in Los Angeles/Orange County, 25.5% (871) requested high school or vocational training, 6% (204) requested an associate degree, and 67.3% (2,301) requested a bachelor's degree.

Educational Supply

Community College Supply—Exhibit 2 shows the three-year average number of awards conferred by community colleges in the related TOP codes: Business and Commerce, General (0501.00), Business Administration (0505.00), Business Management (0506.00), Management, Development, and Supervision (0506.30), Office Technology/Office Computer Applications (0514.00), and Office Management (0514.40). The colleges with the most completions in the

region are: Coastline, Pasadena, and Cerritos. Over the past 12 months, there were 18 other related program recommendation requests from regional community colleges.

It is important to note that these programs train for an additional 16 middle-skill and above middle-skill occupations that are not included in this report. Therefore, supply is overstated for the business occupations included in this report.

Exhibit 2: Regional community college awards (certificates and degrees), 2017-2020

TOP Code	Program	College	2017-2018 Awards	2018-2019 Awards	2019-2020 Awards	3-Year Award Average
0501.00	Business and Commerce, General	Cerritos	39	41	5	28
		Compton	1	-	-	0
		Glendale	48	40	46	45
		LA City	113	157	116	129
		LA Harbor	8	13	10	10
		LA Mission	29	9	-	13
		LA Pierce	-	5	17	7
		LA Southwest	20	30	29	26
		Long Beach	93	130	237	153
		Mt San Antonio	161	209	117	162
		Santa Monica	-	1	5	2
		West LA	8	5	44	19
		LA Subtotal	520	640	626	595
		Coastline	5	5	6	5
		Saddleback	8	14	19	14
		OC Subtotal	13	19	25	19
Supply Subtotal/Average			533	659	651	614
0505.00	Business Administration	Cerritos	181	206	250	212
		Citrus	434	349	398	394
		Compton	44	49	28	40
		East LA	159	227	247	211
		El Camino	310	295	306	304
		Glendale	246	216	241	234
		LA City	85	84	91	87
		LA Harbor	90	83	83	85
		LA Mission	60	51	88	66
		LA Pierce	181	211	208	200
		LA Southwest	22	35	56	38
		LA Trade	-	-	7	2

TOP Code	Program	College	2017-2018 Awards	2018-2019 Awards	2019-2020 Awards	3-Year Award Average
		LA Valley	99	131	147	126
		Long Beach	273	375	293	314
		Mt San Antonio	135	248	269	217
		Pasadena	847	909	1,191	982
		Rio Hondo	216	241	276	244
		Santa Monica	335	297	334	322
		West LA	135	120	156	137
		LA Subtotal	3,852	4,127	4,669	4,216
		Coastline	681	763	592	679
		Cypress	213	228	244	228
		Fullerton	358	374	373	368
		Golden West	126	187	166	160
		Irvine	233	306	349	296
		Orange Coast	393	381	443	406
		Saddleback	278	297	382	319
		Santa Ana	216	217	220	218
		Santiago Canyon	152	159	157	156
		OC Subtotal	2,650	2,912	2,926	2,829
		Supply Subtotal/Average	6,502	7,039	7,595	7,045
0506.00	Business Management	Cerritos	405	456	516	459
		Citrus	1	2	-	1
		Compton	2	3	-	2
		East LA	26	29	18	24
		El Camino	23	23	33	26
		Glendale	10	9	13	11
		LA City	15	18	39	24
		LA Mission	4	3	1	3
		LA Pierce	-	3	2	2
		LA Valley	30	33	36	33
		Long Beach	22	21	29	24
		Mt San Antonio	161	202	145	169
		Santa Monica	18	23	-	14
		LA Subtotal	717	825	832	791
		Coastline	71	84	72	76

TOP Code	Program	College	2017-2018 Awards	2018-2019 Awards	2019-2020 Awards	3-Year Award Average
		Cypress	6	6	3	5
		Fullerton	11	11	12	11
		Golden West	8	20	8	12
		Irvine	9	3	14	9
		North Orange Adult	24	27	36	29
		Orange Coast	51	40	16	36
		Santa Ana	81	64	71	72
		Santiago Canyon	42	17	24	28
		OC Subtotal	303	272	256	277
		Supply Subtotal/Average	1,020	1,097	1,088	1,068
0506.30	Management, Development, and Supervision	Cerritos	8	14	32	18
		LA Pierce	6	4	4	5
		LA Southwest	16	12	9	12
		LA Trade	18	5	4	9
		LA Valley	18	23	20	20
		Pasadena	7	3	3	4
		Rio Hondo	63	20	23	35
		Santa Monica	17	6	19	14
		LA Subtotal	153	87	114	118
		Coastline	312	355	247	305
		Saddleback	23	34	27	28
		Santa Ana	13	4	11	9
		Santiago Canyon	2	-	2	1
		OC Subtotal	350	393	287	343
		Supply Subtotal/Average	503	480	401	461
05014.00	Office Technology/ Office Computer Applications	Cerritos	11	14	10	12
		Citrus	16	23	3	14
		Compton	2	-	-	1
		East LA	110	54	34	66
		El Camino	-	2	2	1
		Glendale	66	44	25	45
		LA City	4	1	6	4
		LA Harbor	7	5	11	8

TOP Code	Program	College	2017-2018 Awards	2018-2019 Awards	2019-2020 Awards	3-Year Award Average
		LA Mission	35	23	12	23
		LA Pierce	35	54	44	44
		LA Southwest	2	2	-	1
		LA Trade	39	31	22	31
		LA Valley	91	119	107	106
		Long Beach	27	33	57	39
		Mt San Antonio	34	75	228	112
		Pasadena	11	38	13	21
		Santa Monica	3	7	12	7
		West LA	2	1	1	1
		LA Subtotal	495	526	587	536
		Coastline	21	12	9	14
		Cypress	10	17	16	14
		Golden West	3	8	1	4
		Irvine	12	18	16	15
		North Orange Adult	97	70	33	67
		Saddleback	9	11	8	9
		Santa Ana	153	138	223	171
		Santiago Canyon	137	106	97	113
		OC Subtotal	442	380	403	408
		Supply Subtotal/Average	937	906	990	944
0514.40	Office Management	El Camino	1	-	1	1
		LA Subtotal	1	0	1	1
		Cypress	1	1	1	1
		OC Subtotal	1	1	1	1
		Supply Subtotal/Average	2	1	2	2
		Supply Total/Average	9,497	10,182	10,727	10,135

Non-Community College Supply—For a comprehensive regional supply analysis, it is also important to consider the supply from other institutions in the region that provide training programs for the business occupations included in this report. Exhibit 3 shows the annual and three-year average number of awards conferred by these institutions in the related Classification of Instructional Programs (CIP) Codes: Business/Commerce, General (52.0101), Business Administration and Management, General (52.0201), Operations Management and Supervision (52.0205), Administrative Assistant and Secretarial Science, General (52.0401), and General

Office Occupations and Clerical Services (52.0408). Due to different data collection periods, the most recent three-year period of available data is from 2016 to 2019. Between 2016 and 2019, four-year colleges in the region conferred an average of 12,639 awards annually in related training programs.

It is important to note that these programs train for an additional 16 middle-skill and above middle-skill occupations that are not included in this report. Therefore, supply is overstated for the business occupations included in this report.

Exhibit 3: Regional non-community college awards, 2016-2019

CIP Code	Program	College	2016-2017 Awards	2017-2018 Awards	2018-2019 Awards	3-Year Award Average
52.0101	Business/Commerce, General	Abraham Lincoln University	-	-	-	-
		Azusa Pacific University	24	10	13	16
		Biola University	-	-	-	-
		DeVry University-California	19	15	17	17
		Loyola Marymount University	5	3	-	3
		University of Southern California	-	-	-	-
Supply Subtotal/Average			48	28	30	35
52.0201	Business Administration and Management, General	Abraham Lincoln University	-	1	4	2
		Advanced College	1	-	-	0
		Angeles College	-	-	-	-
		Azusa Pacific University	111	113	123	116
		Bethesda University	8	22	24	18
		Biola University	116	87	113	105
		Brandman University	143	152	121	139
		California Intercontinental University	5	5	3	4
		California State Polytechnic University-Pomona	1,312	1,469	1,192	1,324
		California State University-Dominguez Hills	505	571	561	546
		California State University-Fullerton	2,155	2,306	2,462	2,308

CIP Code	Program	College	2016-2017 Awards	2017-2018 Awards	2018-2019 Awards	3-Year Award Average
		California State University-Long Beach	1,275	1,437	1,447	1,386
		California State University-Los Angeles	812	1,039	1,078	976
		California State University-Northridge	604	695	717	672
		California University of Management and Sciences	-	-	1	0
		Chapman University	381	366	376	374
		Claremont Graduate University	44	46	39	43
		Concordia University-Irvine	97	95	98	97
		DeVry University-California	192	144	105	147
		Eagle Rock College	-	-	-	-
		Hope International University	20	31	52	34
		InterCoast Colleges-Santa Ana	-	-	-	-
		Learnet Academy Inc	4	17	-	7
		Life Pacific University	5	15	11	10
		Los Angeles ORT College-Los Angeles Campus (CLOSED)	32	24	32	29
		Los Angeles Pacific College	-	-	3	1
		Los Angeles Pacific University	-	-	1	0
		Loyola Marymount University	-	-	32	11
		Marymount California University	57	67	65	63
		Mount Saint Mary's University	48	41	40	43
		Mt Sierra College	10	10	-	7
		Pacific States University	-	2	2	1
		Pepperdine University	200	191	255	215

CIP Code	Program	College	2016-2017 Awards	2017-2018 Awards	2018-2019 Awards	3-Year Award Average
		Platt College-Anaheim	-	2	8	3
		Platt College-Los Angeles	9	8	6	8
		Southern California Institute of Technology	-	-	-	-
		The Master's University and Seminary	45	71	64	60
		Trident University International	407	339	293	346
		University of Antelope Valley	25	33	33	30
		University of California-Irvine	159	205	260	208
		University of La Verne	303	349	314	322
		University of Phoenix-California	1,214	1,309	1,161	1,228
		University of Southern California	1,023	993	1,022	1,013
		University of the People	41	67	75	61
		University of the West	6	15	6	9
		Vanguard University of Southern California	83	78	71	77
		Westcliff University	148	83	97	109
		Whittier College	81	57	73	70
		Woodbury University	44	40	23	36
Supply Subtotal/Average			11,725	12,595	12,463	12,261
52.0205	Operations Management and Supervision	University of Phoenix-California	8	11	13	11
Supply Subtotal/Average			8	11	13	11
52.0401	Administrative Assistant and Secretarial Science, General	ABCO Technology	11	4	11	9
		GDS Institute	32	24	-	19
		Hacienda La Puente Adult Education	65	30	25	40
		InterCoast Colleges-Santa Ana	8	4	3	5

CIP Code	Program	College	2016-2017 Awards	2017-2018 Awards	2018-2019 Awards	3-Year Award Average
		Los Angeles ORT College-Los Angeles Campus (CLOSED)	26	23	12	20
		Pomona Unified School District Adult and Career Education	-	6	2	3
Supply Subtotal/Average			142	91	53	95
52.0408	General Office Occupations and Clerical Services	ABC Adult School	-	21	6	9
		CES College	2	6	7	5
		Glendale Career College	-	-	-	-
		Hacienda La Puente Adult Education	52	48	36	45
		UEI College-Gardena	30	29	32	30
		United Education Institute-Anaheim	40	46	41	42
		United Education Institute-Encino	38	33	28	33
		United Education Institute-Huntington Park Campus	36	42	38	39
		United Education Institute-West Covina	41	29	29	33
Supply Subtotal/Average			239	254	217	237
Supply Total/Average			12,162	12,979	12,776	12,639

Appendix A: Occupational demand and wage data by county

Exhibit 4. Orange County

Occupation (SOC)	2020 Jobs	2025 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings (25th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75th Percentile)
Administrative Services and Facilities Managers (11-3011)	4,224	4,246	22	1%	354	\$36.61	\$51.22	\$65.76
First-Line Supervisors of Office and	17,444	16,923	(521)	(3%)	1,689	\$22.92	\$29.15	\$37.09

Occupation (SOC)	2020 Jobs	2025 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings (25th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75th Percentile)
Administrative Support Workers (13-1198)								
Order Clerks (43-4151)	3,292	2,923	(369)	(11%)	340	\$14.69	\$18.07	\$23.08
Office Clerks, General (43-9061)	35,756	35,153	(603)	(2%)	4,047	\$14.54	\$18.07	\$23.13
Middle-Skill Total	60,716	59,245	(1,471)	(2%)	6,430			
Project Management Specialists and Business Operations Specialists, All Other (13-1198)	23,026	23,388	362	2%	1,755	\$25.53	\$36.34	\$51.58
Above Middle-Skill Total	23,026	23,388	362	2%	1,755			

Exhibit 5. Los Angeles County

Occupation (SOC)	2020 Jobs	2025 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings (25th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75th Percentile)
Administrative Services and Facilities Managers (11-3011)	11,965	12,038	73	1%	1,003	\$37.43	\$52.37	\$67.24
First-Line Supervisors of Office and Administrative Support Workers (13-1198)	45,574	43,614	(1,960)	(4%)	4,387	\$22.94	\$29.19	\$37.15
Order Clerks (43-4151)	9,017	7,885	(1,132)	(13%)	924	\$14.22	\$17.50	\$22.33
Office Clerks, General (43-9061)	93,722	90,661	(3,061)	(3%)	10,539	\$14.58	\$18.12	\$23.20
Middle-Skill Total	160,277	154,198	(6,079)	(4%)	16,853			

Occupation (SOC)	2020 Jobs	2025 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings (25th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75th Percentile)
Project Management Specialists and Business Operations Specialists, All Other (13-1198)	57,888	58,707	819	1%	4,389	\$26.06	\$37.12	\$52.72
Above Middle-Skill Total	57,888	58,707	819	1%	4,389			

Exhibit 6. Los Angeles and Orange Counties

Occupation (SOC)	2020 Jobs	2025 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
Administrative Services and Facilities Managers (11-3011)	16,189	16,284	96	1%	1,357
First-Line Supervisors of Office and Administrative Support Workers (13-1198)	63,019	60,537	(2,481)	(4%)	6,076
Order Clerks (43-4151)	12,309	10,808	(1,500)	(12%)	1,263
Office Clerks, General (43-9061)	129,478	125,814	(3,664)	(3%)	14,587
Middle-Skill Total	220,994	213,444	(7,550)	(3%)	23,282
Project Management Specialists and Business Operations Specialists, All Other (13-1198)	80,914	82,094	1,181	1%	6,144
Above Middle-Skill Total	80,914	82,094	1,181	1%	6,144

Appendix B: Sources

- O*NET Online
- Labor Insight/Jobs (Burning Glass)
- Economic Modeling Specialists, International (Emsi)
- Bureau of Labor Statistics (BLS)
- Employment Development Department, Labor Market Information Division, OES
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- California Family Needs Calculator, Insight Center for Community Economic Development
- Chancellor's Office Curriculum Inventory (COCI 2.0)

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