



SAN DIEGO COMMUNITY COLLEGE DISTRICT

CITY COLLEGE • MESA COLLEGE • MIRAMAR COLLEGE • COLLEGE OF CONTINUING EDUCATION

Board of Trustees Meeting Date: 3/11/2021

The following curriculum changes are proposed for the San Diego Community College District for City College, Mesa College, Miramar College, or College of Continuing Education. There is no additional cost to the District.

New Programs

San Diego City College

1. Network Security II, Certificate of Achievement

The Certificate of Achievement in Network Security II provides students with the intermediate-level skills to apply behavioral analytics to networks and devices to prevent, detect, and combat cybersecurity threats through continuous security monitoring. This curriculum includes hands-on experience in virtual environments that simulate real-world scenarios in threat and vulnerability management, compliance and assessment, and incident response. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in IT roles that are vital for building, protecting, and maintaining information and technology assets

Justification:

The expanding field of Information Technology (IT) comprises various facets, including network administration and cybersecurity, telecommunications, computer support, computer science, software programming, and system analysis and design. Almost every company's business strategy relies on the use of information systems in order to succeed and grow into the future. For this reason, San Diego City College's Computer Information Systems Program offers a bridge between business, computer science, and information technology.

Graduates of the program will have an applied knowledge of fields such as web programming, system infrastructure, databases, networking, e-business, project management, data center management, security, and information assurance.

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer and Information Systems Managers (SOC 11-3021)	4,220	4,495	275	6.5%	371
Software Developers, Applications (SOC 15-1132)	10,958	12,553	1,595	14.6%	1,067
Software Developers, Systems Software (SOC 15-1133)	8,602	9,107	505	5.9%	660
Computer User Support Specialists (SOC 15-1151)	5,700	6,125	425	11.5%	512



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Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer Occupations, All Other (SOC 15-1199)	4,674	4,909	235	5.0%	363

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/5/2020
Regional Consortia Recommendation: 11/13/2020

San Diego Mesa College

1. Dental Office Administration, Certificate of Achievement

The Dental Office Administration Certificate of Achievement prepares students to work in an administrative setting in a dental office. This certification can be completed in two semesters. Training includes skills in written and verbal communication with patients and insurance companies; knowledge of dental anatomy and terminology; competency in completing dental insurance forms and utilizing the software to bill and schedule patients. The certificate's DENA courses are part of the accredited Dental Assisting program, but presently the certificate itself doesn't fall under the accreditation process. Upon completion of this certificate, the student will be prepared to obtain a job working as an entry-level administrator within a dental office.

Justification:

The San Diego Mesa Dental Assisting Program uses state-of-the-art dental equipment, hardware, and software to maintain relevance for dental assisting students and to be competitive with the other dental assisting schools. The dental field is changing rapidly in regards to new technology, equipment and allowable duties. Students interested in the administrative side of dentistry and office duties should review information under the Dental Office Administration Certificate of Achievement. Students who complete the Certificate will attain: skills in written and verbal communication with patients and insurance companies; knowledge of dental anatomy and terminology to converse with patients and insurance companies; competency in completing dental insurance forms and utilizing software to bill patients and Insurance companies; and schedule patients for treatment and care.

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Dental Assistants (SOC 31-9091)	3,918	4,238	320	6.9%	510

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>



Advisory Committee Approval: 10/13/2020
Regional Consortia Recommendation: 1/8/2020

2. Retail Store Associate, Certificate of Performance

This certificate prepares students for a broad range of entry-level positions within the retail industry. Students learn interpersonal communication, intergroup communication and relational skills as well as on-the-job technical skills through practical work experience in the retail industry. It also serves as a precursor for the Retail Management Certificate of Achievement.

Justification:

Upon completion of this certificate, students may be qualified for such job titles as: Retail Sales Associates, Lead Sales Associate, Cashier, Lead Cashier, Customer Service Representative, Merchandiser, Clerk and Unit Team Lead.

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Table with 6 columns: Occupation, Employment (Estimated, Projected), Employment Change (Number, Percent), and Annual Avg Openings. Rows include General and Operations Managers, Sales Managers, and First-Line Supervisors of Retail Sales Workers.

Source: Centers of Excellence Supply and Demand table, http://coeccc.net/Supply-and-Demand.aspx

San Diego Miramar College

1. Hybrid / Electric Vehicles, Certificate of Achievement

The Hybrid-Electric Vehicles Certificate of Achievement prepares students for entry-level maintenance and repair of hybrid vehicles. Students seeking employment at Toyota or Lexus dealerships will also be certified by Toyota to perform warranty repairs, campaigns, and recalls on hybrid vehicles.

Justification:

The certificate focuses on diagnosis and repair of Honda/Acura and Toyota/Lexus hybrid engine systems, high voltage (HV) systems, climate control system, electric power steering, and engine control systems. This certificate prepares students for Toyota Hybrid certification and is intended for automotive technology students seeking Honda



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Professional Automotive Career Training (PACT) or Toyota Technician (T-TEN) certification.

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Automotive Service Technicians and Mechanics (SOC 49-3023)	7,584	8,044	460	4.9%	815

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 11/14/2019
Regional Consortia Recommendation: 6/12/2020



Program Deactivations

San Diego City College

- 1. Plumbing (Construction Trades) Apprenticeship, Associate of Science**
Justification: This apprenticeship is no longer offered.
- 2. Plumbing (Construction Trades) Apprenticeship, Certificate of Achievement**
Justification: This apprenticeship is no longer offered.
- 3. Project Management for Information Technology, Certificate of Performance**
Justification: This certificate is no longer offered.



Program Revisions

San Diego City College

1. Advanced Arts Entrepreneurship, Certificate of Performance

Changes

- i. Remove ARTF 207 from Restricted Electives
- ii. Add ARTF 207A and ARTF 207B to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Multimedia Artists and Animators (SOC 27-1014)	1,356	1,446	90	6.6%	128

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

2. Arts Entrepreneurship, Certificate of Performance

Changes

- i. Remove ARTF 207 from Restricted Electives
- ii. Add ARTF 207A and ARTF 207B to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Multimedia Artists and Animators (SOC 27-1014)	1,356	1,446	90	6.6%	128

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

3. Black and White Photography, Certificate of Performance

Changes

- i. Add PHOT 102A to Courses Required for the Major
- ii. Increase Total Units from 12 to 13

Labor Market Information:



San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Photographers (SOC 27-4021)	1,558	1,578	20	1.3%	126

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

4. Cybersecurity, Associate of Science

Changes

- i. Remove INWT 111/112/205/210 from Courses Required for the Major
- ii. Remove INWT 105, INWT 135, and BUSE 092 from Restricted Electives
- iii. Add CISC 179 and INWT 125 to Courses Required for the Major
- iv. Add INWT 205 and INWT 210 to Restricted Electives
- v. Decrease Total Units from 37-38 to 31-32

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer Occupations, All Other (SOC: 15-1199)	4,674	4,909	235	5.0%	363
Computer User Support Specialists (SOC: 15-1151)	5,700	6,125	425	11.5%	512
Information Security Analysts (SOC: 15-1122)	624	709	85	13.6%	62
Network and Computer Systems Administrators (SOC: 15-1142)	3,392	3,547	155	2.3%	243
Software Developers, Applications (SOC: 15-1132)	10,958	12,553	1,595	14.6%	1,067

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval:10/5/2020

5. Cybersecurity, Certificate of Achievement

Changes

- i. Remove INWT 111/112/205/210 from Courses Required for the Major
- ii. Remove INWT 105, INWT 135, and BUSE 092 from Restricted Electives
- iii. Add CISC 179 and INWT 125 to Courses Required for the Major
- iv. Add INWT 205 and INWT 210 to Restricted Electives
- v. Decrease Total Units from 37-38 to 31-32



Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer Occupations, All Other (SOC: 15-1199)	4,674	4,909	235	5.0%	363
Computer User Support Specialists (SOC: 15-1151)	5,700	6,125	425	11.5%	512
Information Security Analysts (SOC: 15-1122)	624	709	85	13.6%	62
Network and Computer Systems Administrators (SOC: 15-1142)	3,392	3,547	155	2.3%	243
Software Developers, Applications (SOC: 15-1132)	10,958	12,553	1,595	14.6%	1,067

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/5/2020
Regional Consortia Recommendation: 11/13/2020

6. Digital Photography, Certificate of Performance
Changes

- i. Add PHOT 103 to Courses Required for the Major
- ii. Increase Total Units from 10 to 11

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Photographers (SOC 27-4021)	1,558	1,578	20	1.3%	126

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

7. Information Technology Management, Associate of Science
Changes

- i. Remove BUSE 092 from Courses Required for the Major
- ii. Remove INWT 105/145/200 from Restricted Electives
- iii. Add INWT 125/145/200 to Courses Required for the Major
- iv. Increase Total Units from 27 to 30



Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer Occupations, All Other (SOC: 15-1199)	4,674	4,909	235	5.0%	363
Computer User Support Specialists (SOC: 15-1151)	5,700	6,125	425	11.5%	512
Information Security Analysts (SOC: 15-1122)	624	709	85	13.6%	62
Network and Computer Systems Administrators (SOC: 15-1142)	3,392	3,547	155	2.3%	243
Software Developers, Applications (SOC: 15-1132)	10,958	12,553	1,595	14.6%	1,067

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval:10/5/2020

8. Information Technology Management, Certificate of Achievement Changes

- i. Remove BUSE 092 from Courses Required for the Major
- ii. Remove INWT 105/145/200 from Restricted Electives
- iii. Add INWT 125/145/200 to Courses Required for the Major
- iv. Increase Total Units from 27 to 30

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer Occupations, All Other (SOC: 15-1199)	4,674	4,909	235	5.0%	363
Computer User Support Specialists (SOC: 15-1151)	5,700	6,125	425	11.5%	512
Information Security Analysts (SOC: 15-1122)	624	709	85	13.6%	62
Network and Computer Systems Administrators (SOC: 15-1142)	3,392	3,547	155	2.3%	243
Software Developers, Applications	10,958	12,553	1,595	14.6%	1,067



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Occupation (SOC: 15-1132)	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/5/2020
Regional Consortia Recommendation: 12/11/2020

9. Lineman, Associate of Science

Changes

- i. Remove ELCT 190/191/192/193/194/195 from Courses Required for the Major
- ii. Add SDGE 090/091/092/093/094/095 to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Electricians (SOC: 47-2111)	7,618	7,888	270	8.5%	903

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Department of Industrial Relations Division of Apprenticeship Standards (DAS) Approval: 7/7/2020:

10. Lineman, Certificate of Achievement

Changes

- i. Remove ELCT 190/191/192/193/194/195 from Courses Required for the Major
- ii. Add SDGE 090/091/092/093/094/095 to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Electricians (SOC: 47-2111)	7,618	7,888	270	8.5%	903

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Department of Industrial Relations Division of Apprenticeship Standards (DAS) Approval: 7/7/2020:



11. Network Security I, Certificate of Performance

Changes

- i. Remove INWT 135 and INWT 200 from Courses Required for the Major
- ii. Add INWT 120 and INWT 140 to Courses required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer and Information Systems Managers (SOC 11-3021)	4,220	4,495	275	6.5%	371
Software Developers, Applications (SOC 15-1132)	10,958	12,553	1,595	14.6%	1,067
Software Developers, Systems Software (SOC 15-1133)	8,602	9,107	505	5.9%	660
Computer User Support Specialists (SOC 15-1151)	5,700	6,125	425	11.5%	512
Computer Occupations, All Other (SOC 15-1199)	4,674	4,909	235	5.0%	363

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

12. Personal Trainer, Certificate of Achievement

Changes

- i. Remove EXSC 284 from Courses Required for the Major
- ii. Add NUTR 170 to Courses Required for the Major
- iii. Increase Total Units from 19-22 to 20-23

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Athletic Trainers (SOC 29-9091)	146	161	15	10.3%	11
Fitness Trainers and Aerobics Instructors (SOC 39-9031)	3,600	3,800	200	5.6%	655

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 12/10/2019
Regional Consortia Recommendation: 11/13/2020



13. Political Science, Associate in Arts for Transfer

Changes

- i. Add POLI 124 to Restricted Electives

14. Pre-Engineering Technology, Certificate of Performance

Changes

- i. Remove MATH 096, MATH 098, PHYS 100, and TEHW 101 from Courses Required for the Major
- ii. Remove ENGE 111, ENGE 151, and MACT 150 from Restricted Electives
- iii. Add ENGE 151, MACT 150, and MFET 101 to Courses Required for the Major
- iv. Decrease Total Units from 13-16 to 12

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Electrical and Electronics Engineering Technicians (SOC 17-3023)	3,090	3,265	175	8.7%	306
Industrial Engineering Technicians (SOC 17-3026)	678	698	20	2.9%	63
Mechanical Engineering Technicians (SOC 17-3027)	504	539	35	6.9%	51
Engineering Technicians, Except Drafters, All Other (SOC 17-3029)	1,704	1,764	60	3.5%	160

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

15. San Diego Trolley Inc Light Rail Vehicle Lineman Apprenticeship, Associate of Science

Changes

- i. Remove MATH 046 from Courses Required for the Major
- ii. Add BUSE 101 and MATH 092 to Coursed Required for the Major
- iii. Decrease Total Units from 34 to 32-33

Labor Market Information:



United States Occupational Projection of Employment 2018 – 2028

Occupation	Employment Estimated	Employment Change		Annual Avg Openings
		Number	Percent	
Locomotive Engineers (SOC: 53-4011)	32,200	31,600	-2	2,900
Rail Car Repairers (SOC: 49-3043)	25,100	25,800	3	2,600
Rail-Track Laying and Maintenance Equipment Operators (SOC : 47-4061)	13,900	14,900	7	1,600

Source: Source: <https://www.onetonline.org/>

Department of Industrial Relations Division of Apprenticeship Standards (DAS) Approval: 7/7/2020

16. San Diego Trolley Inc Light Rail Vehicle Lineman Apprenticeship, Certificate of Achievement

Changes

- i. Remove MATH 046 from Courses Required for the Major
- ii. Add BUSE 101 and MATH 092 to Coursed Required for the Major
- iii. Decrease Total Units from 34 to 32-33

Labor Market Information:

United States Occupational Projection of Employment 2018 – 2028

Occupation	Employment Estimated	Employment Change		Annual Avg Openings
		Number	Percent	
Locomotive Engineers (SOC: 53-4011)	32,200	31,600	-2	2,900
Rail Car Repairers (SOC: 49-3043)	25,100	25,800	3	2,600
Rail-Track Laying and Maintenance Equipment Operators (SOC : 47-4061)	13,900	14,900	7	1,600

Source: Source: <https://www.onetonline.org/>

Department of Industrial Relations Division of Apprenticeship Standards (DAS) Approval: 7/7/2020

17. Three-Dimensional Art, Associate of Arts

Changes

- i. Remove ARTF 207 from Restricted Electives
- ii. Add ARTF 207A and ARTF 207B to Restricted Electives



18. Two-Dimensional Art, Associate of Arts

Changes

- i. Add ARTF 165D/198A/205A to Restricted Electives

San Diego Mesa College

1. Chicana and Chicano Studies, Associate of Arts

Changes

- i. Remove CHIC 110B and SPAN 201/202/215/216 from Courses Required for the Major
- ii. Remove CHIC 170 from Restricted Electives
- iii. Add CHIC 130/138/170 to Courses Required for the Major
- iv. Add CHIC 110B/150/201 and SPAN 101/102/201/202/215/216 to Restricted Electives
- v. Decrease Total Units from 20 to 18-20

2. Culinary Arts/Culinary Management, Associate of Science

Changes

- i. Remove CACM 110/140/210/292 from Courses Required for the Major
- ii. Add CACM 110A/110B/212/270 and HOSP 111 to Courses Required for the Major
- iii. Remove CACM 211 and NUTR 153 from Restricted Electives
- iv. Add CACM 214 and CACM 215 to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Chefs and Head Cooks (SOC 35-1011)	1,832	1,962	130	7.1%	260
First-Line Supervisors of Food Preparation and Serving Workers (SOC 35-1012)	10,600	11,325	725	8.4%	1,693
Food Preparation Workers (SOC 35-2021)	11,112	11,717	605	6.2%	2,033
Bakers (SOC 51-3011)	3,578	3,873	295	9.4%	583

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020



3. Culinary Arts/Culinary Management, Certificate of Achievement

Changes

- i. Remove CACM 110/140/292 from Courses Required for the Major
- ii. Add CACM 110A/110B/270 and HOSP 111 to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Chefs and Head Cooks (SOC 35-1011)	1,832	1,962	130	7.1%	260
First-Line Supervisors of Food Preparation and Serving Workers (SOC 35-1012)	10,600	11,325	725	8.4%	1,693
Food Preparation Workers (SOC 35-2021)	11,112	11,717	605	6.2%	2,033
Bakers (SOC 51-3011)	3,578	3,873	295	9.4%	583

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020
Regional Consortia Recommendation: 12/11/2020

4. Health Information Management, Bachelor of Science

Changes

- i. Remove HEIT 267 from Courses Required for the Major
- ii. Decrease Total Units from 87 to 84.5

5. Health Information Technology, Associate of Science

Changes

- i. Remove HEIT 267 from Courses Required for the Major
- ii. Decrease Total Units from 33 to 30.5

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	



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Occupation	Employment		Employment Change		Annual Avg Openings
	2018	2023	Number	Percent	
Medical Records and Health Information Technicians (SOC 29-2071)	2,186	2,351	165	7.3%	168
Medical Transcriptionists (SOC 31-9094)	270	245	-25	-9.3%	25

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 4/30/2020

6. Neurodiagnostic Technology, Associate of Science

Changes

- i. Remove MEDA 078, NDTE 201/206/209/220/223/226 from Courses Required for the Major
- ii. Decrease Total Units from 45 to 32

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Health Technologists and Technicians, All Other (SOC 29-2099)	2,116	2,431	315	14.9%	203

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 1/12/2021

7. Neurodiagnostic Technology, Certificate of Achievement

Changes

- i. Remove MEDA 078, NDTE 201/206/209/220/223/226 from Courses Required for the Major
- ii. Decrease Total Units from 45 to 32

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	



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Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Health Technologists and Technicians, All Other (SOC 29-2099)	2,116	2,431	315	14.9%	203

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 1/12/2021
Regional Consortia Recommendation: 2/19/2021

8. Web Development, Certificate of Achievement Changes

- i. Remove MULT 121 from Courses Required for the Major
- ii. Add MULT 100 to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Web Developers (SOC: 15-1134)	2,648	2,893	245	9.3%	242

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 8/31/2020
Regional Consortia Recommendation: 12/11/2020

San Diego Miramar College

1. Advanced Emission Specialist, Certificate of Performance Changes

- i. Remove AUTO 086 from Courses Required for the Major
- ii. Add AUTO 186 to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	



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Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Automotive Service Technicians and Mechanics (SOC 49-3023)	7,584	8,044	460	4.9%	815

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

2. Advanced Traffic Accident Investigation, Certificate of Achievement

Changes

- i. Remove ADJU 381/382/383/384 from Courses Required for the Major
- ii. Add ADJU 260 to Courses Required for the Major
- iii. Decrease Total Units from 29.2 to 27.7

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Detectives and Criminal Investigators (SOC 33-3021)	4,232	4,262	30	1.5%	270
Police and Sheriff's Patrol Officers (SOC 33-3051)	5,158	5,328	170	4.9%	365

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 9/22/2020
Regional Consortia Recommendation: 1/8/2021

3. Automotive Chassis, Certificate of Achievement

Changes

- i. Remove AUTO 061/061T/062/062T/076/076T/078/078T from Courses Required for the Major
- ii. Add AUTO 161G/161T/162G/162T/176G/176T/178G/178T to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Automotive Service Technicians and Mechanics (SOC 49-3023)	7,584	8,044	460	4.9%	815

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>



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Advisory Committee Approval: 12/8/2020
Regional Consortia Recommendation: 1/8/2021

4. Automotive Electrical, Certificate of Achievement

Changes

- i. Remove AUTO 061/061T/062/062T/065/065T/069/069T from Courses Required for the Major
- ii. Add AUTO 161G/161T/162G/162T/165G/165T/169G/169T to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Automotive Service Technicians and Mechanics (SOC 49-3023)	7,584	8,044	460	4.9%	815

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 12/8/2020
Regional Consortia Recommendation: 1/8/2021

5. Automotive Engine Performance, Certificate of Achievement

Changes

- i. Remove AUTO 056/056T/061/061T/062/062T/065/065T/067/067T from Courses Required for the Major
- ii. Add AUTO 156G/156T/161G/161T/162G/162T/165G/165T/167G/167T to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Automotive Service Technicians and Mechanics (SOC 49-3023)	7,584	8,044	460	4.9%	815

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 12/8/2020
Regional Consortia Recommendation: 1/8/2021

6. Automotive Technology, Associate of Science

Changes



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- i. Remove AUTO 056/056T/061/061T/062/062T/065/065T/067/067T/069/069T/072/072T/074/074T/076/076T/078/078T from Courses Required for the Major
- ii. Add AUTO 156G/156T/161G/161T/162G/162T/165G/165T/167G/167T/169G/169T/172G /172T/174G/174T/176G/176T/178G/178T to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Automotive Service Technicians and Mechanics (SOC 49-3023)	7,584	8,044	460	4.9%	815

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 12/8/2020

7. Automotive Transmissions, Certificate of Achievement

Changes

- i. Remove AUTO 061/061T/062/062T/065/065T/072/072T/074/074T from Courses Required for the Major
- ii. Add AUTO 161G/161T/162G/162T/165G/165T/172G /172T/174G/174T to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Automotive Service Technicians and Mechanics (SOC 49-3023)	7,584	8,044	460	4.9%	815

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 12/8/2020

Regional Consortia Recommendation: 1/8/2021

8. Business Management, Associate of Science

Changes

- i. Add BUSE 102 to Courses Required for the Major
- ii. Remove MATH 115 from Restricted Electives
- iii. Add BUSE 102 and BUSE 150 to Restricted Electives



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Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
General and Operations Managers (SOC 11-1021)	24,630	26,380	1,750	7.5%	2,412
Administrative Services Managers (SOC 11-3011)	3,740	3,990	250	8.6%	357
Managers, All Other (SOC 11-9199)	12,634	13,144	510	4.0%	995
Management Analysts (SOC 13-1111)	11,540	12,215	675	6.4%	1,135

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020

9. Business Management, Certificate of Achievement Changes

- i. Add BUSE 102 to Courses Required for the Major
- ii. Remove MATH 115 from Restricted Electives
- iii. Add BUSE 102 and BUSE 150 to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
General and Operations Managers (SOC 11-1021)	24,630	26,380	1,750	7.5%	2,412
Administrative Services Managers (SOC 11-3011)	3,740	3,990	250	8.6%	357
Managers, All Other (SOC 11-9199)	12,634	13,144	510	4.0%	995
Management Analysts (SOC 13-1111)	11,540	12,215	675	6.4%	1,135

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020
Regional Consortia Recommendation: 12/11/2020



10. Computer and Information Sciences, Associate of Science

Changes

- i. Remove CISC 186 from Courses Required for the Major
- ii. Add BUSE 115 to Courses Required for the Major
- iii. Add CISC 179/186/190/192 to Restricted Electives
- iv. Increase Total Units from 31 to 32

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer Systems Analysts (SOC 15-1121)	5,564	5,849	285	6.0%	417
Computer User Support Specialists (SOC 15-1151)	5,700	6,125	425	11.5%	512

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020

11. Computer and Information Sciences, Certificate of Achievement

Changes

- i. Remove CISC 186 from Courses Required for the Major
- ii. Add BUSE 115 to Courses Required for the Major
- iii. Add CISC 179/186/190/192 to Restricted Electives
- iv. Increase Total Units from 31 to 32

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer Systems Analysts (SOC 15-1121)	5,564	5,849	285	6.0%	417
Computer User Support Specialists (SOC 15-1151)	5,700	6,125	425	11.5%	512

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020
Regional Consortia Recommendation: 12/11/2020



12. Contemporary Police Technologies, Associate of Science

Changes

- i. Remove ADJU 381/382/383/384 from Courses Required for the Major
- ii. Add ADJU 260 to Courses Required for the Major
- iii. Decrease Total Units from 34.5 to 33

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Detectives and Criminal Investigators (SOC 33-3021)	4,232	4,262	30	1.5%	270
Police and Sheriff's Patrol Officers (SOC 33-3051)	5,158	5,328	170	4.9%	365

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 9/22/2020

13. Contemporary Police Technologies, Certificate of Achievement

Changes

- i. Remove ADJU 381/382/383/384 from Courses Required for the Major
- ii. Add ADJU 260 to Courses Required for the Major
- iii. Decrease Total Units from 34.5 to 33

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Detectives and Criminal Investigators (SOC 33-3021)	4,232	4,262	30	1.5%	270
Police and Sheriff's Patrol Officers (SOC 33-3051)	5,158	5,328	170	4.9%	365

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 9/22/2020

Regional Consortia Recommendation: 1/8/2021

14. Entrepreneurship, Associate of Science

Changes

- i. Remove ACCT 150 from Courses Required for the Major



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- ii. Add BUSE 102 and BUSE 150 to Courses Required for the Major
- iii. Remove ARTF 150B, AUTO 051T/053/056/056T, and BUSE 150 from Restricted Electives
- iv. Add ACCT 150, AUTO 151T/153G/156G/156T, BUSE 155/157/229A/229B/229C/229D/290, and GRFX 110 to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Advertising and Promotions Managers (SOC 11-2011)	246	261	15	6.1%	29
General and Operations Managers (SOC 11-1021)	24,630	26,380	1,750	7.5%	2,412
Marketing Managers (SOC 11-2021)	2,688	2,833	145	5.4%	261
Public Relations and Fundraising Managers (SOC 11-2031)	582	612	30	5.2%	53
Sales Managers (SOC 11-2022)	6,068	6,488	420	7.9%	611

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020

15. Entrepreneurship, Certificate of Achievement Changes

- i. Remove ACCT 150 from Courses Required for the Major
- ii. Add BUSE 102 and BUSE 150 to Courses Required for the Major
- iii. Remove ARTF 150B, AUTO 051T/053/056/056T and BUSE 150 from Restricted Electives
- iv. Add ACCT 150, AUTO 151T/153G/156G/156T, BUSE 115/157/229A/229B/229C/229D/290, and GRFX 110 to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	



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Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Advertising and Promotions Managers (SOC 11-2011)	246	261	15	6.1%	29
General and Operations Managers (SOC 11-1021)	24,630	26,380	1,750	7.5%	2,412
Marketing Managers (SOC 11-2021)	2,688	2,833	145	5.4%	261
Public Relations and Fundraising Managers (SOC 11-2031)	582	612	30	5.2%	53
Sales Managers (SOC 11-2022)	6,068	6,488	420	7.9%	611

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval:10/13/2020
Regional Consortia Recommendation: 1/8/2021

16. Equipment Mechanic Apprenticeship, Associate of Science

Changes

- i. Remove AUTO 078 and AUTO 056 from Courses Required for the Major
- ii. Add AUTO 156G and AUTO 178G to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Automotive Service Technicians and Mechanics (SOC: 49-3023)	7,584	8,044	460	4.9%	815
Bus and Truck Mechanics and Diesel Engine Specialists (SOC: 49-3031)	1,892	2,047	155	10.6%	204
Farm Equipment Mechanics and Service Technicians (SOC: 49-3041)	112	117	5	4.5%	12
Mobile Heavy Equipment Mechanics, Except Engines (SOC: 49-3042)	606	646	40	6.1%	66
Industrial Machinery Mechanics (SOC: 49-9041)	1,998	2,143	145	7.4%	206

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval:12/8/2020

17. Equipment Mechanic Apprenticeship, Certificate of Achievement

Changes

- i. Remove AUTO 078 and AUTO 056 from Courses Required for the Major



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- ii. Add AUTO 156G and AUTO 178G to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Automotive Service Technicians and Mechanics (SOC: 49-3023)	7,584	8,044	460	4.9%	815
Bus and Truck Mechanics and Diesel Engine Specialists (SOC: 49-3031)	1,892	2,047	155	10.6%	204
Farm Equipment Mechanics and Service Technicians (SOC: 49-3041)	112	117	5	4.5%	12
Mobile Heavy Equipment Mechanics, Except Engines (SOC: 49-3042)	606	646	40	6.1%	66
Industrial Machinery Mechanics (SOC: 49-9041)	1,998	2,143	145	7.4%	206

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 12/8/2020

18. Financial Services, Associate of Science

Changes

- i. Add BUSE 102 to Courses Required for the Major
- ii. Remove BUSE 150 from Restricted Electives
- iii. Add REAL 120 to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Bill and Account Collectors (SOC: 43-3011)	3,756	3,721	-35	8.7%	378
Credit Authorizers, Checkers, and Clerks (SOC: 43-4041)	322	327	5	1.6%	33
Loan Interviewers and Clerks (SOC: 43-4131)	1,744	1,904	160	9.2%	204

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020



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19. Financial Services, Certificate of Achievement

Changes

- i. Add BUSE 102 to Courses Required for the Major
- ii. Increase Total Units from 20 to 23

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Bill and Account Collectors (SOC: 43-3011)	3,756	3,721	-35	8.7%	378
Credit Authorizers, Checkers, and Clerks (SOC: 43-4041)	322	327	5	1.6%	33
Loan Interviewers and Clerks (SOC: 43-4131)	1,744	1,904	160	9.2%	204

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020
Regional Consortia Recommendation: 12/11/2020

20. Fire Prevention, Associate of Science

Changes

- i. Remove ADJU 357A from Courses Required for the Major
- ii. Decrease Total Units from 22.9-23.2 to 21.9-22.2

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Firefighters (SOC: 33-2011)	3,310	3,410	100	5.4%	237

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 11/19/2020

21. Fire Prevention, Certificate of Achievement

Changes

- i. Remove ADJU 357A from Courses Required for the Major
- ii. Decrease Total Units from 22.9-23.2 to 21.9-22.2

Labor Market Information:



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San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Firefighters (SOC: 33-2011)	3,310	3,410	100	5.4%	237

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 11/19/2020
Regional Consortia Recommendation: 1/8/2021

22. Independent Business Ownership, Certificate of Performance

Changes

- i. Remove ARTF 150B, AUTO 051T/053/056/056T from Restricted Electives
- ii. Add AUTO 151T/153G/156G/156T, BUSE 155/157/290 and GRFX 110 to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
General and Operations Managers (SOC 11-1021)	24,630	26,380	1,750	7.5%	2,412
Administrative Services Managers (SOC 11-3011)	3,740	3,990	250	8.6%	357
Managers, All Other (SOC 11-9199)	12,634	13,144	510	4.0%	995
Management Analysts (SOC 13-1111)	11,540	12,215	675	6.4%	1,135

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

23. Law Enforcement Supervision, Certificate of Achievement

Changes

- i. Remove ADJU 381/382/383/384 from Courses Required for the Major
- ii. Add ADJU 260 to Courses Required for the Major
- iii. Decrease Total Units from 27 to 25.5

Labor Market Information:



San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Detectives and Criminal Investigators (SOC 33-3021)	4,232	4,262	30	1.5%	270
Police and Sheriff’s Patrol Officers (SOC 33-3051)	5,158	5,328	170	4.9%	365
First-Line Supervisors of Police and Detectives (SOC 33-1012)	648	668	20	9.0%	41

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 9/22/2020
Regional Consortia Recommendation: 1/8/2021

24. Law Enforcement Technologies, Certificate of Achievement Changes

- i. Remove ADJU 381/382/383/384 from Courses Required for the Major
- ii. Add ADJU 260 to Courses Required for the Major
- iii. Add ADJU 101/106/361R to Restricted Electives
- iv. Revise Total Units from 25.5 to 24.5-27

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Detectives and Criminal Investigators (SOC 33-3021)	4,232	4,262	30	1.5%	270
Police and Sheriff’s Patrol Officers (SOC 33-3051)	5,158	5,328	170	4.9%	365
First-Line Supervisors of Police and Detectives (SOC 33-1012)	648	668	20	9.0%	41

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 9/22/2020
Regional Consortia Recommendation: 1/8/2021

25. Paralegal, Associate of Science Changes

- i. Remove PARA 296 from Restricted Electives
- ii. Add BUSE 102 to Restricted Electives



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Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Paralegals and Legal Assistants (SOC: 23-2011)	3,428	3,648	220	10.9%	398
Court Reporters (SOC: 23-2091)	200	200	0	0.0%	16
Title Examiners, Abstractors, and Searchers (SOC: 23-2093)	686	726	40	5.8%	64
Legal Support Workers, All Other (SOC: 23-2099)	700	700	0	0.0%	57

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020

26. Paralegal, Certificate of Achievement

Changes

- i. Remove PARA 296 from Restricted Electives
- ii. Add BUSE 102 to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Paralegals and Legal Assistants (SOC: 23-2011)	3,428	3,648	220	10.9%	398
Court Reporters (SOC: 23-2091)	200	200	0	0.0%	16
Title Examiners, Abstractors, and Searchers (SOC: 23-2093)	686	726	40	5.8%	64
Legal Support Workers, All Other (SOC: 23-2099)	700	700	0	0.0%	57

Source: Centers of Excellence Supply and Demand table, <http://coecc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 10/13/2020
Regional Consortia Recommendation: 12/11/2020



27. Technical Achievement for Field Training Officers, Certificate of Achievement Changes

- i. Remove ADJU 381/382/383/384 from Courses Required for the Major
- ii. Add ADJU 260 to Courses Required for the Major
- iii. Decrease Total Units from 26 to 24.

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Detectives and Criminal Investigators (SOC 33-3021)	4,232	4,262	30	1.5%	270
Police and Sheriff's Patrol Officers (SOC 33-3051)	5,158	5,328	170	4.9%	365
First-Line Supervisors of Police and Detectives (SOC 33-1012)	648	668	20	9.0%	41

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 9/22/2020
Regional Consortia Recommendation: 1/8/2021

San Diego College of Continuing Education

1. Data Management with Python, Certificate of Completion Changes

- i. Add COMP 663 to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2023

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer Systems Analysts (SOC 15-1121)	5,564	5,849	285	6.0%	417
Software Developers, Applications (SOC 15-1132)	10,958	12,553	1,595	14.6%	1,067
Software Developers, Systems Software (SOC 15-1133)	8,602	9,107	505	5.9%	660

Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>



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New Courses

Units

San Diego City College

ARTF 207B— Industrial and Architectural Ceramic Design II	3 Units
DRAM 205—The American Musical on Stage and Screen	3 Units

San Diego Mesa College

CACM 110B—Fundamental Food and Service: Cooking Techniques	2 Units
CACM 160—Fundamental of Baking Theory	3 Units
CACM 214—Advanced Baking	3 Units
CACM 215—Advanced Pastry	3 Units

San Diego Miramar College

ADJU 260— POST Certified Regional Academy	24 Units
AUTO 180T—Honda/Toyota Hybrid Electric Vehicle (HEV) Systems	4 Units
BUSE 229A—Gazelle Path Business Incubator I	4 Units
BUSE 229B—Gazelle Path Business Incubator II	4 Units
BUSE 229C—Gazelle Path Business Incubator III	4 Units
BUSE 229D—Gazelle Path Business Incubator IV	4 Units
EMGM 105B—Emergency Medical Technician Support	0.5 Units
FIPT 150W—Wildland Firefighter Safety and Survival	2.5 Units
FIPT 322D—Behavioral Health and Cancer Awareness 1A	0.2 Units

San Diego City College and San Diego Mesa College

PADM 110—Introduction to Law and Society	3 Units
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San Diego City College and San Diego Miramar College

EXSC 144B—Fitness Walking II	0.5-1 Units
EXSC 144C—Fitness Walking III	0.5-1 Units
EXSC 144D—Fitness Walking IV	0.5-1 Units

San Diego City College, San Diego Mesa College, and San Diego Miramar College

PERG 160—Stress Management & Well-Being in the Modern World	3 Units
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San Diego College of Continuing Education

COMP 663— Python For Data Science	
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Course Deactivations

Justification: The following courses are no longer offered at the college(s).

San Diego City College

HVAC 349—HVAC Work Experience	1 Unit
INWT 105—Project+ Certification Training	4 Units
INWT 135—Certified Secure Computer User (CSCU)	3 Units
PHOT 75—Photography for Cosmetology	3 Units
PHOT 126—Legal Issues for Photographers	2 Units
PHOT 127—Self Promotion for Professional Photographers	2 Units
PHOT 145—Color Transparency Photography	2 Units
PHOT 237—Historic & Alternative Photo Processes	3 Units
PHOT 258—Production for Commercial Photography	2 Units
PLBG 160A—Introduction To Plumbing I	3 Units
PLBG 160B—Introduction To Plumbing II	3 Units
PLBG 165A—Intermediate Plumbing I	3 Units
PLBG 165B—Intermediate Plumbing II	3 Units
PLBG 170A—Advanced Plumbing I	3 Units
PLBG 170B—Advanced Plumbing II	3 Units
PLBG 175A—Plumbing Construction Specialties	3 Units
PLBG 175B—Plumbing Code	3 Units
PLBG 305—Introduction to Plumbing I	3 Units
PLBG 310—Introduction to Plumbing II	3 Units
PLBG 315—Intermediate Plumbing I	3 Units
PLBG 320—Intermediate Plumbing II	3 Units
PLBG 325—Advanced Plumbing I	3 Units
PLBG 330—Advanced Plumbing II	3 Units
PLBG 335—Plumbing Construction Specialties	3 Units
PLBG 340—Plumbing Code	3 Units
PLPF 180—Pipefitting I	3 Units
PLPF 185—Pipefitting III	3 Units
PLPF 190—Pipefitting IV	3 Units
PLPF 195—Pipefitting II	3 Units
PLPF 325—Pipefitting I	3 Units
PLPF 330—Pipefitting III	3 Units
PLPF 335—Pipefitting IV	3 Units
PLPF 340—Pipefitting II	3 Units

San Diego Mesa College

CACM 140—Food and Beverage Purchasing and Control	3 Units
CACM 211—Advanced Baking and Pastry	3 Units
CACM 292—Culinary Practicum	2 Units



SAN DIEGO COMMUNITY COLLEGE DISTRICT

CITY COLLEGE • MESA COLLEGE • MIRAMAR COLLEGE • COLLEGE OF CONTINUING EDUCATION

San Diego Miramar College

ADJU 381— POST Certified Regional Academy Module 1	15 Units
ADJU 382— POST Certified Regional Academy Module 2	4.5 Units
ADJU 383— POST Certified Regional Academy Module 3	2 Units
ADJU 384— POST Certified Regional Academy Module 4	4 Units