



SAN DIEGO COMMUNITY COLLEGE DISTRICT

CITY COLLEGE • MESA COLLEGE • MIRAMAR COLLEGE • CONTINUING EDUCATION

Board of Trustees Meeting Date: 1/30/2020

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

New Programs

San Diego City College

1. Archaeology, Certificate of Achievement

The certificate recognizes the student's completion of a series of courses that prepare the student for entry-level participation in field archaeological projects and work in an archaeological lab. This program is designed to prepare students for entry-level employment in archaeological field work, laboratory work or museum work.

Justification:

Students who successfully complete the award will be able to define Archaeology and discuss its place in the larger field of Anthropology; identify, discuss, and perform common archaeological survey and excavation tasks; identify, discuss, and complete basic archaeological cataloging and associated lab work; conduct analyses of common archaeological materials and prepare a report on that analysis; identify, describe and discuss archaeological ethics and the obligations of archaeologists to descendent populations; discuss the basic laws that apply to archaeology in the state of California and at the federal level; and identify and critically evaluate the need for curation of archaeological resources.

2. Energy Analysis and Consultation, Associate of Science

The Associate of Science in Energy Analysis and Consultation provides students with a comprehensive education in energy retrofits, green building construction, and building operations. This curriculum prepares students for a career in the clean energy industry specific to the built environment. This course of study covers topics ranging from energy auditing, energy efficiency, solar energy retrofits, green construction, HVAC integration, and zero-net energy design. This pathway includes preparation for industry-recognized certifications geared towards leading businesses in the energy efficiency and renewable energy industry.

Justification:

Students who successfully complete the program can use the skills learned in a variety of industries and jobs including: business operations specialists; energy auditors; first-line supervisors of construction trades; extraction workers; solar energy installation managers; solar photovoltaic installers; heating, air conditioning, and refrigeration installers. This program also serves as a foundation for additional training in energy efficiency jobs.



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Labor Market Information:

Occupational Projection of Employment 2016 – 2026 in San Diego County

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Business Operations Specialist, All Other (SOC 13-1199)	14,280	15,600	1,320	9.2	1,463
First-Line Supervisors of Construction Trades and Extraction Workers(SOC 47-1011)	5,960	7,150	1,190	20.0	742
Solar Photovoltaic Installer (SOC 47-2231)*	740	1,530	790	106.8	1,970
Heating, Air Conditioning, and Refrigeration Workers (SOC 49-9021)	2,240	2,540	300	13.4	255
Construction and Related Workers, All Other (SOC 47-4099)*	460	570	110	23.9	640

*Orange County

Sources: <https://www.labormarketinfo.edd.ca.gov> and <https://www.onetonline.org/>

3. Energy Analysis and Consultation, Certificate of Achievement

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4. Manufacturing Fundamentals, Certificate of Achievement

Manufacturing Engineering Technology (MFET) program provides students the opportunity to acquire highly valued skills in an innovative, hands-on learning environment. The program features integrating experiences through which students participate in all aspects of a manufacturing enterprise, from materials and processes to safety, design, automation, quality and lean manufacturing. Armed with these skills, MFET graduates can pursue rewarding, growth-oriented careers in such diverse industries as plastics, automotive, biomedical, electronics, aerospace, machining, and other high-value manufacturing sectors.

Justification:

Students who successfully complete the program can use the skills learned in a variety of jobs including manufacturing engineering, engineering technician, manufacturing operation management, equipment maintenance and troubleshooting, quality and production control, production planning, and automation. MFET graduates may also further their education by transferring to a number of four-year colleges and universities.



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Occupational Projection of Employment 2018 – 2023 in San Diego County

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Machinists (SOC 51-4041)	3,741	3,885	144	4%	413
Computer-Controlled Machine Tool Operators (SOC 51-4011)	1,423	1,505	82	6%	160
Cutting, Punching, and Press Machine Setters (SOC 51-4031)	638	627	-11	2%	71
Lathe and Turning Machine Tool Setters (SOC 51-4034)	415	404	-11	3%	40
Computer Numerically Controlled Machine Tool Programmers, (SOC 51- 4012)	287	317	30	10%	35
Multiple Machine Tool Setters (SOC 51-4081)	278	298	20	7%	35
Drilling and Boring Machine Tool Setters (SOC 51-4032)	108	101	-7	6%	11
Forging Machine Setters (SOC 51-4022)	38	38	0	0%	4

Source: <https://www.labormarketinfo.edd.ca.gov>

San Diego Mesa College

1. Music Studies, Associate of Arts

The Associate of Arts in Music Studies provides students with the basic skills for musical pursuits suitable to meet goals and needs in Music not concentrated on performance.

Justification:

The academic program in Music will prepare students to transfer to 4 year universities as a music major (performance or non-performance) and to develop basic skills that relate to careers in the music industry.

2. Music Technology, Associate of Arts

The Associate of Arts degree in Music Technology provides students with the necessary skills for pursuing transfer to a 4 year academic music technology degree.

Justification:

The academic program in Music is designed to provide students with the sequenced fundamental skills for most musical pursuits for a transfer to a 4 year degree with a major in Music Performance (Classical or Jazz), non-performing music major or those seeking a career in the music industry.



3. Sustainability, Certificate of Achievement

The certificate provides students with an interdisciplinary understanding of the biological, social, and economic considerations of issues related to the environment and environmental degradation.

Justification:

The Sustainability Program offers students a focused and organized program of study that serves three goals: 1) to prepare students to transfer to a CSU, UC, or other four-year institution to major in Sustainability or related discipline; 2) to complement students' existing major course of study; and 3) to expand job skills for students currently in the workforce.

San Diego Continuing Education

1. Certificate of Completion Cloud Solutions AWS-Associate

The Cloud Solutions Associate Program is designed to provide students with the knowledge and skills needed to function as a cloud computing architect. Emphasis is placed on the ability to effectively demonstrate knowledge of how to architect and deploy secure and robust applications on a cloud computing platform. Focus will be on the ability to define a solution using cloud computing architectural design principles and provide implementation guidance based on best practices throughout the lifecycle of the project. Topics include key cloud concepts, the core cloud services, security, architecture, pricing, and support. Students who successfully complete the program can use the skills learned in a variety of industries and jobs including network and computer systems administrator, computer user support specialist and computer operator. This program also serves as a foundation for additional training in information technology.

Justification:

Students who successfully complete the program can use the skills learned in a variety of industries and jobs including network and computer systems administrator, computer user support specialist and computer operator. This program also serves as a foundation for additional training in information technology.



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Labor Market Information:

Occupational Projection of Employment 2014 – 2024 in San Diego County

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Information Security Analysts (SOC 15-1122)	7,854	8,864	1,010	13.6%	764
Computer Network Architects (SOC 15-1143)	15,734	16,694	960	5.7%	1,226
Computer Network Support Specialists (SOC 15-1152)	19,540	20,690	1,150	5.2%	1,681
Database Administrators (SOC 15-1141)	12,308	13,278	970	8.8%	1,003
Network and Computer Systems Administrator (SOC 15-1142)	41,594	43,679	2,085	5.1%	3,023

Source: <http://www.coecc.net/>



Program Deactivations

San Diego City College

1. Archaeology Certificate of Performance

Justification: The certificate is being replaced by the proposed Archaeology Certificate of Achievement.

2. Business Administration Emphasis- Cox Associate of Science

Justification: This program is no longer offered.

3. Business Management and Organization Certificate of Performance

Justification: This program is no longer offered.

4. Communication Certificate of Performance

Justification: This certificate is no longer offered.

5. Selected Studies Associate of Arts

Justification: This program is no longer offered.

6. Site Supervisor Associate of Science

Justification: This program is no longer offered.

7. School Age Child Care Certificate of Performance

Justification: This certificate is being deactivated to simplify program choices.

San Diego Mesa College

1. Honors Global Competencies Certificate Certificate of Performance

Justification: This degree is no longer offered.



Program Revisions

San Diego City College

1. Broadcast News Certificate of Achievement

Changes

- i. Remove RTVF 290 from Restricted Electives
- ii. Add RTVF 107/118/153 to Restricted Electives

2. Broadcast News Certificate of Performance

Changes

- i. Remove RTVF 290 from Restricted Electives
- ii. Add RTVF 188 to Restricted Electives

3. Computer Numerical Control (CNC) Operator Option Certificate of Performance

Changes

- i. Remove MACT 140 from Courses Required for the Major

4. Dance Certificate of Performance

Changes

- i. Remove DANC 111 from Courses Required for the Major
- ii. Add DANC 111/125A/125B/160A/160B to Restricted Electives

5. Film Production Certificate of Achievement

Changes

- i. Remove RTVF 290 from Restricted Electives
- ii. Add RTVF 107 to Restricted Electives

6. Introduction to Manufacturing Certificate of Performance

Changes

- i. Add MFET 107D/107G/107H to Restricted Electives

7. Video Production Certificate of Achievement

Changes

- i. Remove RTVF 118 from Courses Required for the Major
- ii. Add RTVF 153 to Coursed Required for the Major
- iii. Remove RTVF 115/175/153/290 from Restricted Electives
- iv. Add RTVF 107/118/151/156 to Restricted Electives

8. Video Production Certificate of Performance

Changes

- i. Remove RTVF 115/124//175 from Restricted Electives



9. Labor Studies Certificate of Achievement

Changes

- i. Remove LABR 104 and LABR106A from Courses Required for the Major
- ii. Add LABR 107 and LABR 108 to Courses Required for the Major
- iii. Remove LABR 106B/108/122A/122B/123A from Restricted Electives

San Diego Mesa College

1. Anthropology Associate of Arts

Changes

- i. Remove ANTH 115 from Restricted Electives
- ii. Add ANTH 117 to Restricted Electives

2. Computer Fashion Technology: Merchandising Associate of Science

Changes

- i. Remove WEBD 173 from Courses Required for the Major
- ii. Add FASH 111 to Courses Required for the Major

3. Computer Fashion Technology: Merchandising Certificate of Achievement

Changes

- i. Remove WEBD 173 from Courses Required for the Major
- ii. Add FASH 111 to Courses Required for the Major

4. Economics Associate in Arts for Transfer

Changes

- i. Remove BIOL200 and MATH 151 from Courses Required for the Major
- ii. Add MATH 119 to Courses Required for the Major
- iii. Remove CHIN 101/102/201/202, CISC 150, FREN 101/102/201/202, GERM 101/102/201, ITAL 101/102/201, JAPN 101/102/201, LATI 101/102/201, RUSS 101/102/201, SPAN 101/102/201/202/215/216, TAGA 101/102/201, VIET 101/102/201 from Restricted Electives
- iv. Add "Completion of a 5-unit language course other than English which is articulated as fulfilling CSUGE-B Area C2, including American Sign Language (AMSL) courses" statement to Restricted Electives

5. Fine Art: Art History Associate of Arts

Changes

- i. Add ARTF 106 and ARTF 188 to Restricted Electives.

6. Fine Art: Photography and New Genres Associate of Arts

Changes

- i. Remove ARTF 113/115/120/125, BLAS 110, and CHIC 230 from Restricted Electives
- ii. Add ARTF 106 to Courses Required for the Major
- iii. Add ARTF 188 to Courses Required for Emphasis



7. Kinesiology Associate of Science

Changes

- i. Add DANC120A/120B/125A/125B/160A/160B, EXSC 110A/110B/110C/110D/116A/116B/ 122A/122B/ 125D/130C/130D/ 140C/140D/141A/141B/141C/ 178A/178B/178C/178D/ 179A/179B/179C/179D/ 180A/180B/180C/180D/ 183A/183B/ 183C/183D /200/201/202/203/204/205/206/ 207/210/211/214/215/216/217/ 218/219/220/221/222/223/ 224/225/226/227/228A/228B/ 230A/230B/231A/231B/232A/232B/233A/233B/234A/234B/235A/235B/23 6A/236B/237A/237B/238A/238B/239A/239B/243A/243B/244A/244B, and HEAL 101/195 from Restricted Electives
- ii. Remove EXSC 144A/162A/162B/162C/162D/170A/170B/170C/170D/ 172/174A/174B/174C/174D/180 from Restricted Electives

8. Liberal Arts and Sciences: Language Arts and Humanities-Chinese Associate of Arts

Changes

- i. Add CHIN 202/210/211 to Restricted Electives
- ii. Remove LATI 101/102/201, and TAGA101/102/201 from Restricted Electives

9. Liberal Arts and Sciences: Language Arts and Humanities-French Associate of Arts

Changes

- i. Remove LATI 101/102/201, and TAGA101/102/201 from Restricted Electives

10. Liberal Arts and Sciences: Language Arts and Humanities-German Associate of Arts

Changes

- i. Remove LATI 101/102/201, and TAGA101/102/201 from Restricted Electives

11. Liberal Arts and Sciences: Language Arts and Humanities-Italian Associate of Arts

Changes

- i. Remove LATI 101/102/201, and TAGA101/102/201 from Restricted Electives

12. Liberal Arts and Sciences: Language Arts and Humanities-Japanese Associate of Arts

Changes

- i. Remove LATI 101/102/201, and TAGA101/102/201 from Restricted Electives
- ii. Add JAPN 210 and JAPN 211 to Restricted Electives



13. Liberal Arts and Sciences: Language Arts and Humanities-Russian Associate of Science

Changes

- i. Remove LATI 101/102/201, and TAGA101/102/201 from Restricted Electives

14. Liberal Arts and Sciences: Language Arts and Humanities-Spanish Associate of Arts

Changes

- i. Remove LATI 101/102/201, and TAGA101/102/201 from Restricted Electives

15. Liberal Arts and Sciences: Language Arts and Humanities-Vietnamese Associate of Arts

Changes

- i. Remove LATI 101/102/201, and TAGA101/102/201 from Restricted Electives

16. Music Studies Performance Associate of Arts

Changes

- i. Remove MUSI 100/103/109/110/111/116A/116B/117/118/119/120/121/123A/125/135A/135B/ 150A/153/158A/158B/190/201/202/203/205A/205B/206A/206B/211A/ 211B/211C/211D/ 216A/175A/175B/175C/175D/240/241/256A/256B/256C/256D/258A/258B/268A/268B/269A/269B/274A/274B/274C/274D from restricted Electives
- ii. Add MUSI 100/116A/116B/123A/123B/123C/123D/158A/158B/216A/258A/258B/268A/268B/269A/269B to Courses Required for the Major
- iii. Add MUSI 174A/174B/174C/174D/274A/274B/274C/274D to Applied Music Restricted Electives
- iv. Add MUSI 257A/257B/257C/257D/259A/259B/259C/259D to Ensembles Restricted Electives

17. Phlebotomy Training Program Certificate of Performance

Changes

- i. Remove PHLB 050/060 from Courses Required for the Major
- ii. Add PHLB 070/080 to Courses Required for the Major

18. Political Science Associate of Arts

Changes

- i. Remove HIST 100/101/105/106, MATH 119, and POLI 101/103 from Courses Required for the Major
- ii. Add POLI 101/103/121/123/124/140/201, MATH 119, and PSYC 258 to Restricted Electives



19. Political Science Associate in Arts for Transfer

Changes

- i. Remove ACCT 116A, ANTH 103, BLAS 100/116, BUSE 140, CHIC 110A/110B, ECON 120/121, ENGL 105/205, GEOG 102, HIST 100/101/105/106/109/110/141/142/150/151/175/, POLI 140, and SOCO 101/110/223 from Restricted Electives
- ii. Add POLI 121/123/124/140/201 and BUSE 115 to Restricted Electives
- iii. Add “Completion of a 5-unit language course other than English which is articulated as fulfilling CSUGE-B Area C2, including American Sign Language (AMSL) Courses.” statement to Restricted Electives

20. Radiologic Technology Associate of Science

Changes

- i. Remove RADT 241L from Courses Required for the Major

21. Radiologic Technology Certificate of Achievement

Changes

- i. Remove RADT 241L from Courses Required for the Major

22. Spanish Associate in Arts for Transfer

Changes

- i. Remove CHIN 101/102/201, FREN 101/102/201/202, GERM 101/102/201, ITAL 101/102/201, JAPN 101/102/201/202, LATI 101/102, RUSS 101/102/201, TAGA 101, VIET 101/102/201 from Restricted Electives
- ii. Add “Completion of a 5-unit language course other than English or Spanish which is articulated as fulfilling CSUGE-B Area C2” statement to Restricted Electives

23. Veterinary Technology Associate of Science

Changes

- i. Remove ANHL 100A/100B/115/125/125L/135/140/145/145L/155/155L/205/215L/225/227/229/260/260L/270 from Courses Required for the Major
- ii. Add VTAH 100A/100B/115/125/125L/135/140/145/145L/155/155L/205/215 /215L/225/227/229/260/260L/270 to Courses Required for the Major

San Diego Miramar College

1. Business Management Associate of Science

Changes

- i. Remove BUSE 150 and BUSE 205 from Restricted Electives
- ii. Add BUSE 150 and CBTE 180 to Courses Required for the Major
- iii. Add BUSE 129 and PADM 200 to Restricted Electives



2. Business Management Certificate of Achievement

Changes

- i. Remove BUSE 150 and BUSE 205 from Restricted Electives
- ii. Add BUSE 150 and CBTE 180 to Courses Required for the Major
- iii. Add BUSE 129 and PADM 200 to Restricted Electives

3. Entry Level Firefighter Associate of Science

Changes

- i. Remove FIPT 150D from Restricted Electives
- ii. Add FIPT 150T and FIPT 381P From Restricted Electives

4. Entry Level Firefighter Certificate of Achievement

Changes

- i. Remove FIPT 150D from Restricted Electives
- ii. Add FIPT 150T and FIPT 381P From Restricted Electives

5. Occupational/Technical Studies Associate of Science

Changes

- i. Remove BUSE 205, PARA 100A and PARA 100B from Restricted Electives
- ii. Add BUSE 129, PADM 200 and PARA 100 to Restricted Electives

6. Paralegal Associate of Science

Changes

- i. Remove PARA 100A and PARA100B from Courses Required for the Major
- ii. Add PARA 100 to Courses Required for the Major
- iii. Remove PARA 215 from Restricted Electives
- iv. Add CBTE 221 to Restricted Electives

7. Paralegal Certificate of Achievement

Changes

- i. Remove PARA 100A and PARA100B from Courses Required for the Major
- ii. Add PARA 100 to Courses Required for the Major
- iii. Remove PARA 215 from Restricted Electives
- iv. Add CBTE 221 to Restricted Electives



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New Courses

Units

San Diego City College

EGEE 85— Energy Standard Practice	3 Units
EGEE 98— Energy Service Entrepreneurship	3 Units
MFET 107D— STEM Drone Building	1.5 Units
MFET 107G—STEM Guitar Building	1.5 Units
MFET 107H—STEM High Tech Device Building	1.5 Units
MFET 114—Problem Solving and Corrective Action	3 Units
MFET 205—Introduction to Electronic Manufacturing Services	3 Units
POLI 31—Social and Behavioral Sciences Statistics Support	1 Units

San Diego Mesa College

EXSC 180B— Track and Field II	0.5-1 Units
EXSC 180C— Track and Field III	0.5-1 Units
EXSC 180D— Track and Field IV	0.5-1 Units

San Diego Miramar College

GRFX 290—Independent Study	1-3 Units
SUST 290— Independent Study	1-3 Units

San Diego Continuing Education

COMP 671—AWS Academy Cloud Foundations	
COMP 672—AWS Academy Cloud Architecture	

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

PSYC 31— Social and Behavioral Sciences Statistic Support	1 Units
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Course Deactivations

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

San Diego City College

LABR 106A—Grievance Handling	3 Units
LABR 106B—Arbitration Procedure	3 Units
MATH 34A—Basic Mathematics and Study Skills	4 Units
MFET107— Introduction to Manufacturing Project	1 Units

San Diego Mesa College

ANTH 270—Work Experience	1-4 Units
RADT 150—Forensic Radiology for the Radiologic Technologist	2 Units
RADT 241L— Sectional Anatomy Lab	0.5 Units
MUSI 153—Beginning Jazz Improvisation	2 Units

San Diego Miramar College

AVIA 290—Independent Study	1-3 Units
FIPT 290— Independent Study	1-3 Units
PARA 100A— Paralegalism and Ethics	1 Units
PARA 100B— Introduction to Law	2 Units
PARA 215—Administrative Law	3 Units



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Course Reactivations

Units

San Diego Mesa College

MUSI 230A—Jazz Improvisation I	1 Units
MUSI 230B—Jazz Improvisation II	1 Units
MUSI 230C—Jazz Improvisation III	1 Units
MUSI 230D—Jazz Improvisation IV	1 Units

San Diego Miramar College

NUTR 290—Independent Study	1-3 Units
PARA 100—Legal Procedures	3 Units