



SAN DIEGO COMMUNITY COLLEGE DISTRICT

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

Board of Trustees Meeting Date: 1/27/2022

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 Mesa College

1. 3D Modeling and Animation, Associate of Science

The 3D Modeling and Animation Associate of Science degree is a training ground for aspiring artists seeking opportunities to develop the necessary foundation skills to create content in the realm of 3D computer generated arts. Students follow standard production pipelines and master production tools and processes to expand their creative and technical skills in the areas of 3D modeling, animation, virtual texture and lighting, rendering, character design and development, environment art, visual effects, compositing, virtual cinematography, pre-production, production, post-production, visualization, and other types of interactive and linear storytelling and visualization. Upon completion of this degree, students will be able to produce complex independent 3D animated productions and visualizations, and move on to continue earning their bachelor degree within their chosen emphasis.

Justification:

The Multimedia Program is designed to provide students of multimedia the opportunity to develop necessary foundation design skills, master software tools and processes, and experience industry standard production environments in various fields of multimedia production. The program curriculum is structured so as to provide students with a comprehensive balance of aesthetic, technological, and practical design application. Upon completion of this program, students will be qualified for entry level employment in the multimedia industry.

Program Goals:

The program provides educational instruction and career opportunities to students electing majors and /or courses in multimedia through transferable Associate degrees and certificates in specialized multimedia fields.

Labor Market Information :

San Diego Occupational Projection of Employment 2018 – 2028



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Occupation	Employment		
	Estimated 2018	Projected 2018-2028	Annual Avg Openings
Graphic Designers (SOC 27-1024)	3,040	3,330	333
Special Effects Artists and Animators (SOC 27-1014)	1,000	1,260	126

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

Advisory Committee Approval:8/20/2021
Regional Consortia Recommendation:10/8/ 2021

2. Meat and Seafood Processing, Certificate of Achievement

Students perform fundamental, intermediate, and advanced meat and seafood processing skills. This certificate is an advanced certificate with emphasis on developing butcher, fishery, and meat ageing skills. The courses focus on the academic and practical skills required to butcher, preserve and process whole animal carcass, primal, and subprimal cuts as well as whole fish fabrication and processing in any professional culinary setting.

Justification:

The Culinary Arts/Culinary Management program offers a variety of courses that develop skills with a hands-on and innovative approach. An introduction to cooking at the fundamental level to advanced skills in classical and modern techniques are the core of the culinary program. The coursework combines both laboratory and theory in a rigorous training format. The program has a student-operated restaurant and bakeshop/creamery that provides experience in a real-life setting. Coursework is supplemented with participation in the field with excursions to local farms, restaurants, and food purveyors. The emphasis of the program is providing industry relevant training in classical and advanced techniques such as, but not limited to, Meat & Seafood Processing, Gastronomy, Garde Manger and Baking & Pastry. The program has strong partnerships with local industry leaders and professionals in all aspects of the hospitality industry. Students are prepared for employment and transfer to four-year programs.

The goal of the culinary program is to provide students with industry-relevant training with a focus of building strong technical and career-building skills in the culinary field. Students obtain an integrated and expansive view of all aspects of the culinary arts for greater marketability and career opportunities.

Labor Market Information

San Diego Occupational Projection of Employment 2018 – 2028



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Occupation	Employment		
	Estimated 2018	Projected 2018-2028	Annual Avg Openings
Chefs and Head Cooks (SOC 35-1011)	1,380	2,040	204
First-Line Supervisors of Food Preparation and Serving Workers (SOC 35-1012)	10,250	17,570	1,757
Cooks, Private Household (SOC 35-2013)	100	140	14
Food Preparation Workers (SOC 35-2021)	11,410	19,790	1,979
Bakers (SOC 51-3011)	2,580	3,920	392

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

Advisory Committee Approval:7/12/2021
Regional Consortia Recommendation:8/13/2021

3. Patient Care Coordinator, Certificate of Achievement

The Patient Care Coordinator Program prepares students for employment in outpatient settings including medical clinics and doctors' offices. Students receive training in medical terminology, medical law and ethics, administrative tasks, Microsoft office, lifestyle medicine, health and wellness coaching, and interpersonal communication.

Justification:

Students who complete this program will be able to: work in a legal, ethical and effective manner as a patient care coordinator; communicate with patients, families and other healthcare provider in an appropriate manner; and perform their expected duties in an efficient and effective manner.

Labor Market Information

San Diego Occupational Projection of Employment 2019 – 2024

Occupation	Employment		Employment Change	Annual Avg Openings
	Estimated	Projected	Percent	
Home Health Aides (SOC 31-1121)	2,533	3,710	46%	579
Nurse Assistants (SOC 31-1131)	10,064	11,222	12%	1,420
Medical Assistants (SOC 31-9092)	8,260	9,376	14%	1,188

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

Advisory Committee Approval:9/11/2020
Regional Consortia Recommendation:9/10/2021



4. Software Engineering Foundations, Certificate of Achievement

The Software Engineering Foundations Certificate of Achievement prepares students for programming projects that span multiple people, multiple libraries, and multiple technologies. The award curriculum is structured to provide students with a strong foundation in programming and software development theory, and culminates with a large-scale software implementation. As part of this certificate students are exposed to software industry tools and workflows. Students apply those tools and workflows to handle tasks such as requirements development, code design, version control, code reviewing, code debugging, quality assurance, time management and project tracking. This award is beneficial in assisting internship placement, provides avenues for career advancement, and facilitates achievement of a computer science bachelor’s degree, which is the standard for software industry positions.

Justification:

Prepares students for employment in the rapidly expanding field of Computer and Information Sciences and offers the skills required to function effectively in various occupations and professions requiring the use of computers. Required courses focus upon the use and functioning of the computer and relate the general study of the computer with studies of specific languages, enabling the student to combine computer hardware and software to process data into information. Upon completion of this curriculum, the student should have the capability to apply computer technology to diverse business and professional environments and be qualified for employment as an entry-level programmer in the computer and information sciences industry or transfer to 4-year institution.

The goals of the Computer and Information Sciences program are to prepare students to: apply computer technology to diverse business and professional environments; qualify for employment as an entry-level programmer in the computer and information sciences industry; transfer to a 4-year institution; and/or build skills of current workers that align with industry demands.

Labor Market Information

San Diego Occupational Projection of Employment 2019 – 2024

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimate	Projected	Number	Percent	
Computer Programmers (SOC 15-1251)	4,035	3,952	-83	-2%	284
Software Developers and Software Quality Assurance Analysts and Testers (SOC 15-1256)	20,593	23,045	2,452	12%	2,169



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Web Developers and Digital Interface Designers (SOC 15-1257)	2,288	2,490	202	9%	221
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Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval: 8/3/2021
Regional Consortia Recommendation:10/8/2021



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Program Deactivations

San Diego City College

1. Graphic Design, Certificate of Performance

Justification: This degree has been revised to a certificate of achievement

San Diego Miramar College

1. Medical Laboratory Technician Training, Certificate of Performance

Justification: This degree is no longer offered.



Program Revisions

San Diego City College

1. Liberal Arts and Sciences: Scientific Studies in Biological Science, Associate of Arts

Changes

- i. Remove CISC 190 and CISC 192 from Courses Required for the Major
ii. Add BIOL 232, BUSE115, CHEM 130/130L/231/231L/233/233L, MATH 115/121/122/150/151, and PSYC 255/259 to Courses Required for the Major

2. Philosophy, Associate of Arts

Changes

- i. Remove PHIL 296 from Restricted Electives

San Diego Mesa College

1. 3D Modeling and Animation, Certificate of Achievement

Changes

- i. Remove ARFT 155B, MULT 100/121/122/137/139/141/143 from Courses Required for the Major
ii. Add ARTF 150A, MULT 201/211/213/215/217 to Courses Required for the Major
iii. Decrease total units from 27 to 21

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2028

Table with 4 columns: Occupation, Estimated 2018, Projected 2018-2028, Annual Avg Openings. Rows include Graphic Designers (SOC 27-1024) and Special Effects Artists and Animators (SOC 27-1014).

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

Advisory Committee Approval:8/20/2021
Regional Consortia Recommendation:10/8/ 2021



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2. Baking and Pastry, Certificate of Achievement

Changes

- i. Remove CACM 101 from Courses Required for the Major
- ii. Add CACM 102 to Courses Required for the Major
- iii. Decrease total units from 15 to 14

Labor Market Information:

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Chefs and Head Cooks (SOC 35-1011)	1,380	2,040	204
First-Line Supervisors of Food Preparation and Serving Workers (SOC 35-1012)	10,250	17,570	1,757
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Source: Centers of Excellence Supply and Demand table, <http://coeccc.net/Supply-and-Demand.aspx>

Advisory Committee Approval:7/12/2021
Regional Consortia Recommendation:8/13/2021

3. Chicana and Chicano Studies, Associate of Arts

Changes

- i. Add CHIC 140 and CHIC 155 to Restricted Electives

4. Culinary Arts/Culinary Management, Associate of Science

Changes

- i. Remove CACM 101/105/120/130/131/201/205 from Courses Required for the Major
- ii. Add CACM 102/103/106/122A/122B/132A/132B/132C/133A/133B/202/206A/206B/206C to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2028

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Food Preparation Workers (SOC 35-2021)	11,410	19,790	1,979
Bakers (SOC 51-3011)	2,580	3,920	392

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

Advisory Committee Approval:7/12/2021
Regional Consortia Recommendation:8/13/2021

5. Culinary Arts/Culinary Management, Certificate of Achievement

Changes

- iii. Remove CACM 101/105/120/130/131 from Courses Required for the Major
- iv. Add CACM 102/103/106/122A/122B/132A/132B/132C/133A/133B to Courses Required for the Major
- v. Decrease total units from 31 to 30.5

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2028

Occupation	Employment		
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Chefs and Head Cooks (SOC 35-1011)	1,380	2,040	204
First-Line Supervisors of Food Preparation and Serving Workers (SOC 35-1012)	10,250	17,570	1,757
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Food Preparation Workers (SOC 35-2021)	11,410	19,790	1,979
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Advisory Committee Approval:7/12/2021
Regional Consortia Recommendation:8/13/2021



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6. Interactive Media Production, Certificate of Achievement

Changes

- i. Remove MULT 137 from Courses Required for the Major
- ii. Remove ARTF 150B and MULT 139/141/143 from Restricted Electives
- iii. Add MULT 201 to Courses Required for the Major
- iv. Add MULT 211/213/215/217 to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2028

Occupation	Employment		
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Graphic Designers (SOC 27-1024)	3,040	3,330	333
Special Effects Artists and Animators (SOC 27-1014)	1,000	1,260	126

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

Advisory Committee Approval: 8/20/2021
Regional Consortia Recommendation: 10/8/2021

7. Kinesiology, Associate in Arts for Transfer

Changes

- i. Remove EXSC 170A/170B/170C/170D from Restricted Electives
- ii. Add DANC 112A/112B/112C/112D/ 117A/117B/117C/117D/122A/122B/122C/122D/125A/125B/126A/126B/137A/137B/137C/137D, EXSC 110A/110B/110C/110D/114A/114B/114C/114D/116A/116B/126A/126B/126C/126D/130A/130B/130C/130D/140A/140B/140C/140D/141A/141B/141C/147A/147B/147C/147D/148A/148B/148C/148D/156A/156B/156C/156D/160A/160B/160C/160D/164A/164B/164C/164D/179A/179B/179C/179D/180A/180B/180C/180D/183A/183B/183C/183D/184A/184B/184C/184D to Restricted Electives
- iii. Increase total units from 20-22 to 20-24.5

8. Music Studies, Associate of Arts

Changes

- iv. Add MUSI 138 to Restricted Electives

9. Music Technology, Associate of Arts

Changes

- i. Add MUSI 139 to Restricted Electives



10. Music Technology, Certificate of Achievement

Changes

- i. Add MUSI 139 to Restricted Electives

11. Sustainability, Associate of Arts

Changes

- i. Add POLI 201 to Courses Required for the Major

12. Sustainability, Certificate of Achievement

Changes

- i. Add POLI 201 to Courses Required for the Major

13. Video Game Design and Development, Associate of Science

Changes

- i. Remove MULT 137 and MULT 139 from Courses Required for the Major
- ii. Add MULT 201 and MULT 211 to Courses Required for the Major

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2028

Table with 4 columns: Occupation, Estimated 2018, Projected 2018-2028, Annual Avg Openings. Rows include Graphic Designers (SOC 27-1024) and Special Effects Artists and Animators (SOC 27-1014).

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

Advisory Committee Approval: 8/20/2021
Regional Consortia Recommendation: 10/8/2021

14. Video Game Design and Development, Certificate of Achievement

Changes

- iii. Remove MULT 137 and MULT 139 from Courses Required for the Major
- iv. Add MULT 201 and MULT 211 to Courses Required for the Major

Labor Market Information:

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Graphic Designers (SOC 27-1024)	3,040	3,330	333
Special Effects Artists and Animators (SOC 27-1014)	1,000	1,260	126

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

Advisory Committee Approval: 8/20/2021
Regional Consortia Recommendation: 10/8/2021

15. Visual Communication, Associate of Science

Changes

- i. Remove MULT 137/139/141/143 from Restricted Electives
- ii. Add MULT 201/211/213/215/217 to Restricted Electives

Labor Market Information:

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Occupation	Employment		
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Graphic Designers (SOC 27-1024)	3,040	3,330	333
Special Effects Artists and Animators (SOC 27-1014)	1,000	1,260	126

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

Advisory Committee Approval: 8/20/2021
Regional Consortia Recommendation: 11/19/2021

San Diego Miramar College

1. Business Management, Certificate of Achievement

Changes

- i. Remove MATH 150 from Restricted Electives
- ii. Decrease total units from 27-30 to 27-28 units

Labor Market Information:

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Occupation	Employment		
	Estimated 2018	Projected 2018-2028	Annual Avg Openings
General and Operations Managers (SOC 11-1021)	22,240	22,380	2,238
Administrative Services Managers (SOC 11-3011)	3,360	3,210	321
Managers, All Other (SOC 11-9199)	15,750	14,120	1,412

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

Advisory Committee Approval:4/13/2020
Regional Consortia Recommendation:5/14/2021

2. Entry Level Firefighter, Associate of Science

Changes

- i. Remove FIPT 110A from Restricted Electives
- ii. Add FIPT 150W and FIPT 322D to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2028

Occupation	Employment		
	Estimated 2018	Projected 2018-2028	Annual Avg Openings
Firefighters (SOC 33-2011)	3,450	2,600	260

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

Advisory Committee Approval: 11/19/2020
Regional Consortia Recommendation:5/14/2021

3. Entry Level Firefighter, Certificate of Achievement

Changes

- i. Remove FIPT 110A from Restricted Electives
- ii. Add FIPT 150W and FIPT 322D to Restricted Electives

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2028



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Occupation	Employment		
	Estimated 2018	Projected 2018-2028	Annual Avg Openings
Firefighters (SOC 33-2011)	3,450	2,600	260

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

Advisory Committee Approval: 11/19/2020
Regional Consortia Recommendation: 5/14/2021

4. Medical Laboratory Technology, Associate of Science

Changes

- i. Remove MLTT 201/202/203/204 from Courses Required for the Major
- ii. Add MLTT 210/211/212/213 to Courses Required for the Major
- iii. Increase total units from 26 to 28

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2028

Occupation	Employment		
	Estimated 2018	Projected 2018-2028	Annual Avg Openings
Chemical Technicians (SOC2 19-4031)	890	1,080	108
Clinical Laboratory Technologists and Technicians (SOC 29-2010):	3,610	3,440	344

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

Advisory Committee Approval: 6/15/2021
Regional Consortia Recommendation: 1/14/2022

5. Medical Laboratory Technology, Certificate of Achievement

Changes

- i. Remove MLTT 201/202/203/204 from Courses Required for the Major
- ii. Add MLTT 210/211/212/213 to Courses Required for the Major
- iii. Increase total units from 26 to 28

Labor Market Information:

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Occupation	Employment		
	Estimated 2018	Projected 2018-2028	Annual Avg Openings
Chemical Technicians (SOC2 19-4031)	890	1,080	108
Clinical Laboratory Technologists and Technicians (SOC 29-2010):	3,610	3,440	344

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

Advisory Committee Approval: 6/15/2021
Regional Consortia Recommendation: 1/14/2022

6. Occupational/Technical Studies, Associate of Science

Changes

- i. Remove FIPT 110A/150A, and MLTT 201/202/203 from Restricted Electives
- ii. Add MLTT 210/211/212/213 to Restricted Electives

San Diego College of Continuing Education

1. Front End Web Developer I, Certificate of Completion

Changes

- i. Remove COMM 641/642/643 from Courses Required for the Major
- ii. Add COMM 670 and COMM 671 to Courses Required for the Major
- iii. Decrease total hours from 360 to 86

Labor Market Information:

San Diego Occupational Projection of Employment 2018 – 2028

Occupation	Employment		
	Estimated 2018	Projected 2018-2028	Annual Avg Openings
Web Developers (SOC 15-1134)	2,170	2,110	211

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

2. Front End Web Developer II, Certificate of Completion

Changes

- i. Remove COMM 644/645/646/647 from Courses Required for the Major
- ii. Add COMM 672/673/674/675 to Courses Required for the Major



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Occupation	Employment		
	Estimated 2018	Projected 2018-2028	Annual Avg Openings
Web Developers (SOC 15-1134)	2,170	2,110	211

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



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New Courses	Units
<i>San Diego City College</i>	
BIOL 161—Introduction to Research	3 Units
<i>San Diego Mesa College</i>	
CACM 103— Organization of Food	1 Units
CACM 122A— Restaurant and Catering Operations	1.5 Units
CACM 122B— The Art of Menu Creation	1.5 Units
CACM 132A— Meat, Seafood & Poultry	1 Units
CACM 132B— Seafood Identification & Processing	1.5 Units
CACM 132C— Meat Identification & Processing	1.5 Units
CACM 133A— Menu Preparation Lab	2 Units
CACM 133B— Modern Breakfast Service	2 Units
CACM 202— Contemporary Restaurant Service	2 Units
CACM 206A— Garde Manger I	2 Units
CACM 206B— Garde Manger II	1 Units
CACM 206C— Garde Manger III	1.5 Units
CACM 218— Seafood Fabrication - Whole Fish Lab	1 Units
CACM 220— Meat Butchery - Whole Animal Lab	1.5 Units
CACM 222— Preservation of Meat Lab	1.5 Units
CISC 197— Microsoft C# Software Engineering II	4 Units
CISC 217— Intermediate Python Programming	4 Units
MULT 201— Introduction to 3D Graphics	3 Units
MULT 211— 3D Modeling	3 Units
MULT 213— 3D Texturing and Lighting	3 Units
MULT 215— 3D Character Design and Development	3 Units
MULT 217— 3D Studio Pre-Production	3 Units
MULT 221A—3D Studio Production I	3 Units
MULT 221B—3D Studio Production II	3 Units
MULT 223—3D Visual Effects & Compositing	3 Units
MULT 225—3D Studio Post-Production	3 Units
MUSI 138—Women in Music	3 Units
MUSI 139—Music and Social Media	1 Units
<i>San Diego Miramar College</i>	
ADJU 395A— Arrest and Control	.1 Units
ADJU 395B— Driver Training/Awareness	.05 Units
ADJU 395C— Strategic Communications/De-Escalation	.1 Units



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ADJU 395D— Tactical Firearms	.1 Units
ADJU 395E — Use of Force	.05 Units
MLTT 210— Clinical Chemistry and Laboratory Operations	4 Units
MLTT 211— Clinical Hematology Urinalysis And Body Fluids	4 Units
MLTT 213— Blood Bank and Immunology	4 Units

San Diego College of Continuing Education

COMM 670— Web Development Fundamentals	48 Hours
COMM 671— Soft Skills in Web Development	38 Hours
COMM 672— Web Programming: HTML and CSS	180 Hours
COMM 673— User Interface Design	60 Hours
COMM 674— Modern Web Development Tools	60 Hours
COMM 675— Web Development Special Topics	60 Hours



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Course Deactivations

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

San Diego City College

CHEM 277C— Service Learning — Community	1-3 Units
HUMS 106—Introduction to Youth Development Work	3 Units
PHIL 296—Individualized Instruction in Philosophy	0.5-2 Units

San Diego Mesa College

CACM 120— Menu Analysis and Event Catering	3 Units
CACM 130— Quantity Food Preparation Theory	3 Units
CACM 131— Quantity Food Preparation Laboratory	4 Units
CACM 201— Gourmet Food Preparation Laboratory	3 Units
CACM 205— Garde Manger Cold Food Production	3 Units
MULT 141— 3D Animation III: Intermediate 3D Animation	3 Units
MULT 143— 3D Animation IV: Advanced 3D Animation	3 Units
HEIT 267—Directed Clinical Practice B	2.5 Units
EXSC 170A— Women's Gymnastics I	0.5-1Units
EXSC 170B— Women's Gymnastics II	0.5-1Units
EXSC 170C— Women's Gymnastics III	0.5-1Units
EXSC 170D— Women's Gymnastics IV	0.5-1Units

San Diego Miramar College

FIPT 110A— Wildland Fire Control	2 Units
MLTT 201— Clinical Chemistry and Urinalysis	4 Units
MLTT 202— Clinical Hematology and Immunology	4 Units
MLTT 204— Principles of Blood Banking	2 Units

San Diego College of Continuing Education

COMM 641— Web Programming Beginning	160 Hours
COMM 642— User Interface Design	80 Hours
COMM 643—Design Principles	120 Hours
COMM 644— Web Programming Intermediate	140 Hours
COMM 645— Content Management Systems	90 Hours