Board of Trustees Meeting Date: 10/11/2018

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 Continuing Education

1. **ESL Grammar Program, Certificate of Completion**
   The ESL Grammar Program provides instruction and extensive practice designed to increase students' proficiency in the use of English grammar in written and oral communications. Instruction focuses on pronunciation and application of grammar knowledge in writing and speaking to promote success in workplace, community and academic settings. Soft skills, critical thinking, digital literacy and cultural awareness are incorporated throughout the program.

2. **ESL Reading Program, Certificate of Completion**
   The ESL Reading Program provides instruction and extensive practice designed to increase students' reading skills in the areas of vocabulary development, fluency, accuracy, comprehension, and analysis. Instruction focuses on strategies to build test-taking skills, reading stamina, and knowledge to succeed in workplace, community and academic settings. Language skills, soft skills, critical thinking skills, digital literacy and cultural awareness are incorporated throughout the program.

San Diego City College

1. **Computer Programming, Certificate of Achievement**
   The Certificate of Achievement in Computer Programming is designed to provide students with training in the theory and practice of computer programming emphasizing business and computer applications. Students receive hands-on experience in the fundamentals of structured- and object-oriented analysis, design, and implementation of popular computer programming languages, such as Python, C++, and Java.

   ***Justification*:**
   The Computer Information Systems Department at San Diego City College strongly advocates for the inclusion of a Certificate of Achievement in Computer Programming. As part of our mission, we seek to prepare students for entry-level employment in the field of Information Technology. To this end, the Computer Programming Certificate of Achievement is designed to provide students with training in the theory and practice of computer programming emphasizing business and computer applications. Students receive hands-on experience in the fundamentals of structured- and object-oriented

analysis, design, and implementation of popular computer programming languages, such as Python, C++, and Java. The Certificate of Achievement is often used by students who already have Associate or Bachelor's Degrees who want to change careers or enhance their skills. The Certificate of Achievement in Computer Programming is supported by the industry advisory committee. It is ideal for students seeking to be trained in a field different from their previous work experience, and offers an affordable alternative to more costly private college and university programs in this field of study.

Labor Market Information (Career Education only):

Table 1: Occupational Projection of Employment 2014 – 2024 in San Diego County

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer Systems Analysts (SOC 15-1121)	5580	7200	1620	29.0	234
Software Developers, Applications (SOC 15-1132)	9730	12240	2510	25.8	390
Software Developers, Systems Software (SOC 15-1133)	7530	9160	1630	21.6	271
Computer Programmers (SOC 15-1131)	3670	3740	70	1.9	96
Web Developers (SOC 15-1134)	2120	2920	800	37.7	107

Source: http://www.labormarketinfo.edd.ca.gov/cgi/databrowsing/occExplorerQSSelection.asp?

2. **Computer Programming, Associate of Science**
   The Associate of Science in Computer Programming is designed to provide students with training in the theory and practice of computer programming emphasizing business and computer applications. Students receive hands-on experience in the fundamentals of structured- and object-oriented analysis, design, and implementation of popular computer programming languages, such as Python, C++, and Java.

   Justification:
   The Computer Information Systems Department at San Diego City College strongly advocates for the inclusion of an Associate of Science in Computer Programming. As part of our mission, we seek to prepare students for entry-level employment in the field of Information Technology. To this end, the Associate of Science in Computer Programming is designed to provide students with training in the theory and practice of computer programming emphasizing business and computer applications. Students receive hands-on experience in the fundamentals of structured- and object-oriented analysis, design, and implementation of popular computer programming languages, such as Python, C++, and Java.

   The Associate of Science is often used by students who already have Associate or Bachelor's Degrees who want to change careers or enhance their skills. The Associate of Science in Computer Programming is supported by the industry advisory committee. It

is ideal for students seeking to be trained in a field different from their previous work experience, and offers an affordable alternative to more costly private college and university programs in this field of study.

Labor Market Information (Career Education only):

Table 2: Occupational Projection of Employment 2014 – 2024 in San Diego County

Occupation	Employment		Employment Change		Annual Avg Openings
	Estimated	Projected	Number	Percent	
Computer Systems Analysts (SOC 15-1121)	5580	7200	1620	29.0	234
Software Developers, Applications (SOC 15-1132)	9730	12240	2510	25.8	390
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Source: http://www.labormarketinfo.edd.ca.gov/cgi/databrowsing/occExplorerQSSelection.asp?

Program Deactivations

San Diego City College

1. **Labor Studies Associate of Science Degree**
   Justification: This degree is no longer offered.

Program Revisions

San Diego City College

1. **Three-Dimensional Art Associate of Arts Degree**
   Changes
   - i. Remove ARTF 155B from Courses Required for the Major
   - ii. Add ARTF 104, ARTF 170C, ARTF 179A, ARTF206, ARTF 207, ARTF 212 and ARTF 260 to Restricted Electives

2. **Two-Dimensional Art Associate of Arts Degree**
   Changes
   - i. Remove ARTF 165D, ARTF 100, ARTF 170A, ARTF 195A, ARTF 115, ARTF 175A from Restricted Electives
   - ii. Add ARTF 104, ARTF 156A, ARTF 206 and ARTF 260 to Restricted Electives

New Courses	**Units**

San Diego Continuing Education

1. DSPS 656D - Wellness Management - DSPS
2. ESLA 454 - ESL Beginning Grammar
3. ESLA 455 - ESL Int/Adv Grammar
4. ESLA 456 - ESL Beginning Reading
5. ESLA 457 - ESL Int/Adv Reading

San Diego Miramar College

1. BIOL 136 - Quality and Regulatory Practices in Biotechnology   3 Units