

A. NAME OF AGENDA ITEM

Consideration and approval of new or revised courses and programs.

B. STATEMENT OF ISSUE/PURPOSE

1. Background and Purpose:

Sections 55002, 55130 and 55150 of Title 5 requires the local district governing board approve degree-applicable credit courses, nondegree-applicable credit courses, noncredit courses, community services offerings, and credit and noncredit programs.

The following curriculum changes are proposed for the San Diego Community College District for City College, Mesa College, Miramar College, or Continuing Education:

Dance

Adoption of two new courses at Mesa College. **(Attachment A)**

Diesel Technology

Adoption of a new course at Miramar College. **(Attachment B)**

Exercise Science

Adoption of two new courses at Mesa and Miramar College. **(Attachment C)**

Geology

Adoption of a new course at City and Mesa College. **(Attachment D)**

Mathematics

Adoption of a course deactivation at City and Mesa College. **(Attachment E)**

Business Administration

Adoption of a program revision at Miramar College. **(Attachment F)**

Computer and Information Science

Adoption of a new program at Continuing Education. **(Attachment G)**

Diesel Technology

Adoption of a program revision at Miramar College. **(Attachment H)**

Social and Behavioral Sciences

Adoption of a program revision at Miramar College. **(Attachment I)**

2. Cost and Funding

There is no additional cost to the District.

C. PROPOSAL

The Board of Trustees hereby grants authority to take the action outlined in Part A.

Shelly Hess, Ed.D.  
Interim Vice Chancellor  
Instructional Services

ACTION

Adoption of two new courses at Mesa College.

Proposed new courses at Mesa College:

**160A Pilates - Stretch and Conditioning**

**8 - 13.5 hours lecture, 24 - 40.5 hours lab, 1-1.5 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

Pilates is a course in stretch and conditioning based on exercises and concepts developed by Joseph H. Pilates. This course includes beginning mat work exercises to improve strength and flexibility. This course is of interest to dancers, athletes and anyone seeking an understanding of Pilates exercises and concepts. (FT) Associate Degree Credit & transfer to CSU.

**160B Pilates– Alignment and Correctives**

**8 - 13.5 hours lecture, 24 - 40.5 hours lab, 1-1.5 units**

**Letter Grade or Pass/No Pass Option**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5; Dance 160A with a grade of "C" or better, or equivalent.

Pilates is a course in alignment and correctives based on exercises and concepts developed by Joseph H. Pilates. This course includes intermediate mat exercises to improve body alignment, strength, flexibility, control, coordination, and breathing. This course is of interest to anyone seeking an understanding of Pilates exercises and concepts as well as dancers and athletes. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a new course at Miramar College.

Proposed new course at Miramar College:

**102 Heavy Duty Truck and Heavy Equipment  
Heating and Air Conditioning  
16 - 18 hours lecture, 48 - 54 hours lab, 2 units  
Grade Only**

*Corequisite: Completion of or concurrent enrollment in Diesel Technology 100 with a grade of "C" or better, or equivalent.*

*Advisory: English 35 with a grade of "C" or better, or equivalent or English 42 and English 43, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R4 and W4; Mathematics 38 with a grade of "C" or better, or equivalent or Assessment Skill Level M30.*

This course covers the fundamental skills necessary for diagnosing and servicing heavy duty truck and heavy equipment heating, ventilation, and air conditioning (HVAC) systems. Students learn the fundamental operation, diagnosis, and repair of HVAC systems. Topics include HVAC safety, theory of operation, use of HVAC diagnostic tools, and repair procedures. This course is designed for students interested in the commercial diesel vehicle industry. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of two new courses at Mesa and Miramar College.

Proposed new courses at Mesa and Miramar College:

**140A Boot Camp I**

**32 - 54 hours lab, 0.5-1 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course provides instruction in the fundamental skills necessary to improve core stability, strength and performance for all levels of fitness. Topics include physical readiness testing, proper exercise technique, and the importance of building a strong foundation. This class is designed for students interested in building a strong attachment to the ground surface so that more demanding movements can be accomplished without compromising form. (FT) Associate Degree Credit & transfer to CSU.

**140B Boot Camp II**

**32 - 54 hours lab, 0.5-1 units  
Grade Only**

*Advisory:* English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5; Exercise Science 140A with a grade of "C" or better, or equivalent.

This course provides students with the fundamental skills necessary to improve unilateral strength and increase performance through moderately intense activities. Topics include core stability, targeted functional training and various training models and fitness plans. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a new course at City and Mesa College.

Proposed new course at City and Mesa College:

**120 Earth Science Laboratory**

**48 - 54 hours lab, 1 units**

**Letter Grade or Pass/No Pass Option**

*Corequisite: Completion of or concurrent enrollment in Geology 104 with a grade of "C" or better, or equivalent.*

*Advisory: English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5; Mathematics 38 with a grade of "C" or better, or equivalent or Assessment Skill Level M30.*

This is a laboratory course related to the essentials of Earth Science including the geosphere, atmosphere, hydrosphere and Earth's place in the solar system. This course focuses on the physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather, and climate. This course is designed for teacher education students and anyone with a general interest in Earth Science. (FT) Associate Degree Credit & transfer to CSU.

## Mathematics

### ACTION

Adoption of a course deactivation at City and Mesa College.

Proposed course deactivation at City and Mesa College:

#### **85 Practical Career Mathematics**

**48 - 54 hours lecture, 3 units  
Grade Only**

*Prerequisite:* Mathematics 46 with a grade of "C" or better, or equivalent or Assessment Skill Level M40.

*Advisory:* English 43 with a grade of "C" or better, or equivalent or Assessment Skill Level W4.

This course is a study of the practical applications

of linear, quadratic and exponential growth models. Topics also include statistical methods, geometry, right triangle trigonometry and finance math. This course will develop math literacy through the use of current events and real life applications. This course is designed for students who are earning an associate's degree and who are not planning to transfer to a four-year institution. (FT) Associate Degree Credit only and not Transferable.

ACTION

Adoption of a program revision at Miramar College.

Proposed program revisions at Miramar College:

**Certificate of Achievement  
Business Administration**

<b>Courses Required for the Major:</b>	<b>Units</b>
<del>BUSE 100<sup>†</sup> Introduction to Business or</del>	
<del>MARK 100 Principles of Marketing .....</del>	<del>3</del>
<del>BUSE 119 Business Communications.....</del>	<del>3</del>
<del>BUSE 140 Business Law and the Legal Environment.....</del>	<del>3</del>
ACCT 116A Financial Accounting .....	4
ACCT 116B Managerial Accounting .....	4
CISC 181 Principles of Information Systems.....	4
ECON 120 Principles of Macroeconomics.....	3
ECON 121 Principles of Microeconomics .....	3
MATH 119 Elementary Statistics.....	3

<sup>†</sup>*BUSE 100 is recommended as a first semester course.*

**Select at least three courses from the following:**

	<b>Units</b>
<u>BUSE 100<sup>1</sup> Introduction to Business .....</u>	<u>3</u>
<u>BUSE 119 Business Communications.....</u>	<u>3</u>
<u>BUSE 140 Business Law and the Legal Environment.....</u>	<u>3</u>
<u>BUSE 201 Business Organization and Management.....</u>	<u>3</u>
<u>CISC 181 Principles of Information Systems.....</u>	<u>4</u>
<u>MARK 100 Principles of Marketing .....</u>	<u>3</u>

<sup>1</sup>*BUSE 100 is recommended as a first semester course.*

**Select at least one course from the following:**

	<b>Units</b>
<u>MATH 119 Elementary Statistics.....</u>	<u>3</u>
<u>MATH 121 Basic Techniques of Applied Calculus I.....</u>	<u>3</u>
<u>MATH 150 .....</u>	<u>Calculus with Analytic Geometry I.....5</u>

**Total Units = ~~30~~ 26-29**

**Associate of Science Degree  
Business Administration**

<b>Courses Required for the Major:</b>	<b>Units</b>
<del>BUSE 100<sup>†</sup> Introduction to Business or</del>	
<del>MARK 100 Principles of Marketing .....</del>	<del>3</del>
<del>BUSE 119 Business Communications .....</del>	<del>3</del>
<del>BUSE 140 Business Law and the Legal Environment .....</del>	<del>3</del>
ACCT 116A Financial Accounting .....	4
ACCT 116B Managerial Accounting .....	4
CISC 181 Principles of Information Systems.....	4
ECON 120 Principles of Macroeconomics .....	3
ECON 121 Principles of Microeconomics .....	3
ENGL 101 Reading and Composition.....	3
MATH 119 Elementary Statistics .....	3

<sup>†</sup>*BUSE 100 is recommended as a first semester course.*

**Select at least three courses from the following:**

	<b>Units</b>
<u>BUSE 100<sup>1</sup> Introduction to Business.....</u>	<u>3</u>
<u>BUSE 119 Business Communications .....</u>	<u>3</u>
<u>BUSE 140 Business Law and the Legal Environment .....</u>	<u>3</u>
<u>BUSE 201 Business Organization and Management .....</u>	<u>3</u>
<u>CISC 181 Principles of Information Systems.....</u>	<u>4</u>
<u>MARK 100 Principles of Marketing .....</u>	<u>3</u>

<sup>1</sup>*BUSE 100 is recommended as a first semester course.*

**Select at least one course from the following:**

	<b>Units</b>
<u>MATH 119 Elementary Statistics .....</u>	<u>3</u>
<u>MATH 121 Basic Techniques of Applied Calculus I.....</u>	<u>3</u>
<u>MATH 150 Calculus with Analytic Geometry I.....</u>	<u>5</u>

**Total Units = 33 26-29**

**Associate in Science in Business  
Administration for Transfer Degree**

<b>Courses Required for the Major:</b>	<b>Units</b>
<u>BUSE 119 Business Communications.....</u>	<u>3</u>
BUSE 140 Business Law and the Legal Environment.....	3
ACCT 116A Financial Accounting .....	4
ACCT 116B Managerial Accounting .....	4
CISC 181 Principles of Information Systems.....	4
ECON 120 Principles of Macroeconomics.....	3
ECON 121 Principles of Microeconomics .....	3
<del>MATH 119 Elementary Statistics or</del>	
<del>PSYC 258 Behavioral Science Statistics.....</del>	<del>3</del>
<del>MATH 121 Basic Techniques of Applied Calculus I .....</del>	<del>3</del>

**Select at least one course from the following:**

	<b>Units</b>
<u>MATH 119 Elementary Statistics.....</u>	<u>3</u>
<u>MATH 121 Basic Techniques of Applied Calculus I.....</u>	<u>3</u>

**Total Units = 27**



## Computer and Information Science

Pursuant to Section 78016 of the Education Code, the following is a program review summary:

### Certificate of Completion Network Technician Program

- A. Labor Market Information<sup>1</sup>: The annual average number of persons employed in the Network Technician program area was 11,413 in the 2013 employment year. Approximately 644 new job openings are projected through 2013-2016.
- B. Duplication<sup>2</sup>: Cuyamaca College, MiraCosta College, and Southwestern College.
- C. Effectiveness<sup>3</sup>: Program area OR the projected enrollment of 96 for the 2015-2016 year in the new program area.

1. Labor Market Information, Employment Development Department, California.
2. Web; and Institutions' class schedules and catalogs.
3. Current enrollment data; and program chair Career Technical Education, Continuing Education.

### ACTION

Adoption of a new program at Continuing Education.

Proposed new program at Continuing Education:

### **Certification of Completion Network Technician Program**

The Network Technician Program is designed to provide students with the knowledge and skills required to install, operate and troubleshoot a small enterprise branch network, including basic network security. The program courses cover networking fundamentals, LAN/WAN technologies, basic security and wireless concepts, routing and switching fundamentals, and configuring simple networks. Topics include network theory and design, IP addressing, network hardware and cabling, including router set up and troubleshooting. 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 network support specialist, and computer user support specialist. This program also serves as a foundation for additional training in information technology.

#### **The following courses must be taken to complete the program:**

COMP 600 Introduction to Networking  
COMP 601 Intro to Router Configuration

ACTION

Adoption of a program revision at Miramar College.

Proposed program revisions at Miramar College:

**Certificate of Achievement  
Heavy Duty Transportation  
Technology (HDTT) (Day Program)**

<b>Courses Required for Major:</b>	<b>Units</b>
DIES 100 Introduction to Diesel Technology ....	2
<u>DIES 101 Heavy Duty Truck Advanced Equipment Prevention Maintenance and Inspection.....</u>	<u>2</u>
<u>DIES 102 Heavy Duty Truck and Heavy Equipment Heating and Air Conditioning .....</u>	<u>2</u>
DIES 105 Measuring Tools and Applied Mathematics.....	2
DIES 123 Diesel Engines C .....	2
DIES 138 Electrical Systems.....	3
DIES 144 Electronics for Diesel Technology.....	3
DIES 155 Air Brake Systems .....	3
<del>DIES 160 Heavy Duty Manual Transmission and</del>	<del>3</del>
DIES 175 Truck Chassis R&R .....	3
<del>DIES 165 Truck Automatic Transmissions and</del>	<del>3</del>
DIES 200 Mobile Hydraulic Systems .....	3
DIES 170 Truck Drive Axles and Specifications .....	3
DIES 180 Steering, Suspension, and Driveline System .....	3

<b>Select two courses from:</b>	<b>Units</b>
DIES 121 Diesel Engines A or	
DIES 122 Diesel Engines B or	
DIES 124 Diesel Engines D .....	7

<b>Select one course from:</b>	<b>Units</b>
<u>DIES 160 Heavy Duty Manual Transmission or</u>	<u>3</u>
<u>DIES 165 Truck Automatic Transportation .....</u>	<u>3</u>

**Total Units = 47 ~~48~~**

**Certificate of Achievement  
Heavy Equipment Technology  
(HET) (Day Program)**

<b>Courses Required for the Major:</b>	<b>Units</b>
DIES 100 Introduction to Diesel Technology ....	2
<u>DIES 101 Heavy Duty Truck Advanced Equipment Prevention Maintenance and Inspection .....</u>	<u>2</u>
<u>DIES 102 Heavy Duty Truck and Heavy Equipment Heating and Air Conditioning .....</u>	<u>2</u>
DIES 105 Measuring Tools and Applied Mathematics.....	2
DIES 123 Diesel Engines C .....	2
DIES 138 Electrical Systems.....	3
DIES 144 Electronics for Diesel Technology ....	3
DIES 160 Heavy Duty Manual Transmission <del>and</del> .....	3
DIES 240 Equipment Chassis R&R .....	3
DIES 200 Mobile Hydraulic Systems <del>and</del> .....	3
DIES 230 Heavy Equipment Transmissions .....	3
DIES 210 Brakes, Final Drives and Steering Systems.....	3
DIES 220 Undercarriage .....	3
<i>Note: Students may take DIES 235 (6 units) in place of DIES 160 &amp; 240; and students may take DIES 245 (6 units) in place of DIES 200 &amp; 230.</i>	

<b>Select two courses from:</b>	<b>Units</b>
DIES 121 Diesel Engines A or	
DIES 122 Diesel Engines B or	
DIES 124 Diesel Engines D .....	7

**Total Units = 44 ~~48~~**

ACTION

Adoption of a program revision at Miramar College.

Proposed program revision at Miramar College:

**Associate of Arts Degree  
Social and Behavioral Sciences**

**Courses Required for the Major:                      Units**

**Select at least 12 units from the following**

**Social and Behavioral Sciences core course:**

ADJU 101 Introduction to Administration of Justice .....	3
ADJU 102 Criminal Law I .....	3
ADJU 106 Diversity and Community Relations .....	3
ADJU 162 Criminal Investigation .....	3
ADJU 193 Concepts of Criminal Law .....	3
ADJU 205 Leadership Theory and Practice .....	3
ADJU 210 Rules of Evidence .....	3
ADJU 230 Constitutional Law I .....	3
ANTH 102 Introduction to Physical Anthropology .....	3
ANTH 103 Introduction to Cultural Anthropology .....	3
ANTH 104 Laboratory in Physical Anthropology .....	1
ANTH 107 Introduction to Archaeology .....	3
BLAS 140A History of the U.S., Black Perspective .....	3
BLAS 140B History of the U.S., Black Perspective .....	3
ECON 120 Principles of Macroeconomics .....	3
ECON 121 Principles of Microeconomics .....	3
FILI 100 Filipino American Experience .....	3
GEOG 101 Physical Geography .....	3
GEOG 101L Physical Geography Laboratory .....	1
GEOG 102 Cultural Geography .....	3
GEOG 104 World Regional Geography .....	3
HIST 100 World History I .....	3
HIST 101 World History II .....	3
HIST 105 Introduction to Western Civilization I .....	3
HIST 106 Introduction to Western Civilization II .....	3

HIST 109 History of the United States I .....	3
HIST 110 History of the United States II .....	3
<u>HIST 115A History of the Americas I .....</u>	<u>3</u>
<u>HIST 115B History of the Americas II .....</u>	<u>3</u>
HIST 120 Introduction to Asian Civilizations .....	3
HIST 121 Asian Civilizations in Modern Times .....	3
HIST 141 Women in United States History I .....	3
HIST 142 Women in United States History II .....	3
POLI 101 Introduction to Political Science .....	3
POLI 102 The American Political System .....	3
POLI 103 Comparative Politics .....	3
POLI 140 Contemporary International Politics .....	3
PSYC 101 General Psychology .....	3
PSYC 133 Psychology of Women .....	3
PSYC 135 Marriage and Family Relations .....	3
PSYC 166 Introduction to Social Problems .....	3
PSYC 258 Behavioral Science Statistics <b>or</b>	
MATH 119 Elementary Statistics .....	3
SOCO 101 Principles of Sociology .....	3
SOCO 110 Contemporary Social Problems .....	3
SOCO 201 Advanced Principles of Sociology .....	3
SOCO 223 Globalization and Social Change .....	3
SUST 101 Introduction to Sustainability .....	3

**Select at least one course and the remainder of units needed to meet the minimum of 18 from the following:**

	<b>Units</b>
ACCT 116A Financial Accounting .....	4
BIOL 107 General Biology- Lecture and Laboratory .....	4
BUSE 140 Business Law and the Legal Environment .....	3
CBTE 120 Beginning Microsoft Word .....	2
CBTE 127 Introduction to PowerPoint .....	2
CBTE 140 Microsoft Excel .....	2
CBTE 162 Web Page Creation .....	2

Social and Behavioral Sciences

CHEM 100 Fundamentals of Chemistry .....3  
CHEM 100L Fundamentals of Chemistry  
Laboratory..... 1  
CISC 181 Principles of Information Systems.....4  
CISC 186 Visual Basic Programming .....4  
~~CISC 189A Introduction to Programming I .....4~~  
~~CISC 189B Introduction to Programming II .....4~~  
CISC 190 Java Programming .....4  
ENGL 105 Composition and Literature .....3  
ENGL 205 Critical Thinking and Intermediate  
Composition..... 3  
ENGL 237 Women in Literature .....3  
HUMA 106 World Religions .....3  
LIBS 101 Information Literacy and Research  
Skills ..... 1  
MATH 121 Basic Techniques of Applied  
Calculus I .....3  
MATH 150 Calculus with Analytic Geometry ..5  
PHIL 100 Logic and Critical Thinking .....3  
PHIL 101 Symbolic Logic.....3  
PHIL 102B Introduction to Philosophy:  
Values .....3  
PHIL 205 Critical Thinking and Writing in  
Philosophy .....3  
PHYN 100 Survey of Physical Science.....3

**Total Units = 18**