

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:

Computer and Information Science

Adoption of two new courses at Continuing Education. **(Attachment A)**

Exercise Science

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

Fire Protection Technology

Adoption of five new courses at Miramar College. **(Attachment C)**

Fire Protection Technology

Adoption of a course deactivation at Miramar College. **(Attachment D)**

Computer and Information Science

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

Exercise Science

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

Mathematics

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

Physical Science

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

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 Continuing Education.

Proposed new courses at Continuing Education:

**640 Windows Operating Systems**

*Advisory:* Microcomputer Basics or equivalent.  
This course includes the installation, configuration, and management of the Windows Desktop operating system. Students will also learn about managing applications, files and folders, devices, and the use of administrative tools and the control panel. Practical topics include user interfaces, user account management, operating system security, and basic network configuration. (FT)

**641 Linux Essentials**

*Advisory:* Microcomputer Basics or equivalent.  
This course includes the installation, configuration, and the management of the Linux Operating System. Students will learn about command line processing, user accounts and permissions, and basic shell programming. Students will be introduced to the history of Linux and the open source community, and the different distributions of Linux currently available. (FT)

ACTION

Adoption of a new course at Mesa College.

Proposed new course at Mesa College:

**228A Intercollegiate Sand Volleyball I**  
**96 - 175 hours lab, 2-3.5 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 is the first course in intercollegiate sand volleyball competition. Topics include analyses of individual and team strategies. This course is designed for students interested in competing in sand volleyball at a collegiate-level. Students must pass the sports physical administered by the team physician prior to competition. This course may be taken two times for credit. (FT)  
Associate Degree Credit & transfer to CSU.

ACTION

Adoption of five new courses at Miramar College.

Proposed new courses at Miramar College:

**392S Special Topics in Fire Management**  
**1 hour lecture, 7 - 20.5 hours lab, 0.2 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 students with sound management principles needed for the transition from supervisor to manager in the fire service. Management principles and practices are taught from a variety of different focus areas that may vary from term to term. Focus areas may include: human relations, group dynamics, conflict resolution, financial planning, budget preparation and control, diversity management, and labor relations, among others. Focus areas are listed in the class schedule and student transcripts. This course is intended for practicing firefighters. (FT) Associate Degree Credit only and not Transferable.

**393L Special Topics in Hazardous Materials**  
**24 - 216.5 hours lab, 0.5-4 units**  
**Grade Only**

This course provides students with sound information and practices in dealing with hazardous materials incidents. Hazardous material principles and practices are taught from a variety of different focus areas that may vary from term to term. Focus areas may include: Hazardous Materials Incident Commander, Hazardous Materials Technician, Hazardous Materials Safety Officer, Hazardous Materials Specialist, Hazardous Materials Decontamination, Hazardous Materials Mitigation, or Hazardous Materials Weapons of Mass Destruction, among others. Focus areas are listed in the class schedule and student transcripts. This course is intended for practicing firefighters. (FT) Associate Degree Credit only and not Transferable.

**393S Special Topics in Hazardous Materials**  
**1 - 1 hours lecture, 7 - 20.5 hours lab, 0.2 units**  
**Grade Only**

This course provides students with information and practices in dealing with hazardous materials incidents. Hazardous material principles and practices are taught from a variety of different focus areas that may vary from term to term. Focus areas may include: Hazardous Materials Incident Commander, Hazardous Materials Technician, Hazardous Materials Safety Officer, Hazardous Materials Specialist, Hazardous Materials Decontamination, Hazardous Materials Mitigation, or Hazardous Materials Weapons of Mass Destruction, among others. Focus areas are listed in the class schedule and student transcripts. This course is intended for practicing firefighters. (FT) Associate Degree Credit & transfer to CSU.

**394S Special Topics in Firefighting Tactics**  
**1 - 1 hours lecture, 7 - 20.5 hours lab, 0.2 units**  
**Grade Only**

This course provides professional training in various kinds of firefighting tactics and related activities. Fundamental skills and techniques used by firefighters in the regular execution of their duties are taught from a variety of different focus areas that may vary from term to term. Focus areas may include various kinds of firefighting tactics, vehicle or equipment operation, or firefighter safety and survival, among others. Focus areas are listed in the class schedule and student transcripts. This course is intended for practicing firefighters. (FT) Associate Degree Credit only and not Transferable.

**395S Special Topics in Open Water**

**Lifeguarding**

**1 - 1 hours lecture, 7 - 20.5 hours lab, 0.2 units**

**Grade Only**

This course provides open water lifeguards with training in various kinds of lifeguarding practices. Fundamental skills and techniques used by lifeguards in the regular execution of their duties are taught from a variety of different focus areas that may vary from term to term. Focus areas may include various kinds of lifeguarding techniques, vehicle or equipment operation, or emergency management, among others. Focus areas are listed in the class schedule and student transcripts. This course is intended for practicing open water lifeguards. (FT) Associate Degree Credit only and not Transferable.

ACTION

Adoption of a course deactivation at Miramar College.

Proposed course deactivation at Miramar College:

**301L Fire Company Officer Training**  
**40 - 45 hours lecture, 24 - 27 hours lab, 3 units**  
**Grade Only**

This course is to prepare or enhance the first line supervisors ability to supervise subordinates. It introduces key management concepts and practices utilized in the California Fire Service. The course includes discussions about the role of the Company Officer, oral and written communications, decision-making, time management, leadership styles, personnel evaluations, Emergency Scene Incident Command, operational responsibilities, discipline and counseling guidelines. (FT) Associate Degree Credit only and not Transferable.

## Computer and Information Science

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

### Certificate of Completion Desktop Operating Systems Program

- A. Labor Market Information<sup>1</sup>: The annual average number of persons employed in the Desktop Operation Systems program area was 6,762 in the 2013 employment year. Approximately 817 new job openings are projected through 2013-2016.
- B. Duplication<sup>2</sup>: Cuyamaca College, City College, Southwestern College, and MiraCosta College.
- C. Effectiveness<sup>3</sup>: Program area OR the projected enrollment of 64 for the 2014-2015 year in the new program area.

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

### ACTION

Adoption of a new program at Continuing Education.

Proposed new program at Continuing Education:

### **Certificate of Completion Desktop Operating Systems Program**

The Desktop Operating Systems Program is designed to provide students with the knowledge and skills needed to manage a desktop operating system. The program provides students with both the practical and analytical skills needed to install, configure and ensure the operation of a computer. The program courses provide instruction in both the Windows and Linux desktop environments and include planning and installation of the appropriate operating systems, configuration of computer peripherals and computer virtualization platforms. Topics include managing applications, files and folders, devices, and the use of administrative tools and the control panel. Students will learn about command line processing, user accounts and permissions, and basic shell programming. Students who successfully complete the program can use the skills learned in a variety of industries and jobs including computer support specialist and computer operator. This program also serves as a

foundation for additional training in information technology.

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

COMP 640 Windows Operating Systems  
COMP 641 Linux Essentials

ACTION

Adoption of a program revision at Miramar College.

Proposed program revision at Miramar College:

**Associate of Science Degree**  
**Health and Physical Education**  
**Studies**  
**Exercise and Nutritional Sciences**

**Courses Required for the Major:**

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

	<b>Units</b>
EXSC 241B Introduction to Kinesiology .....	3
EXSC 242B Care and Prevention of Injuries .....	3
HEAL 101 Health and Life-Style .....	3
NUTR 150 Nutrition.....	3
<u>NUTR 153 Cultural Foods .....</u>	<u>3</u>
<u>NUTR 155 Advanced Nutrition .....</u>	<u>3</u>
NUTR 170 Nutrition and Fitness.....	3

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

	<b>Units</b>
BIOL 107 General Biology-Lecture and Laboratory.....	4
BIOL 210A Introduction to the Biological Sciences I.....	4
BIOL 230 Human Anatomy .....	4
BIOL 235 Human Physiology .....	4

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

	<b>Units</b>
<u>EXSC 241B Introduction to Kinesiology .....</u>	<u>3</u>
<u>EXSC 242B Care and Prevention of Injuries .....</u>	<u>3</u>
HEAL 101 Health and Life-Style .....	3
<u>NUTR 150 Nutrition.....</u>	<u>3</u>
<u>NUTR 153 Cultural Foods .....</u>	<u>3</u>
<u>NUTR 155 Advanced Nutrition .....</u>	<u>3</u>
<u>NUTR 170 Nutrition and Fitness.....</u>	<u>3</u>
<u>NUTR 180 Nutrition and Diet Therapy.....</u>	<u>3</u>
<u>BIOL 107 General Biology-Lecture and Laboratory.....</u>	<u>4</u>
BIOL 130 Human Heredity .....	3
BIOL 135 Biology of Human Nutrition .....	3
BIOL 160 Elements of Human Anatomy and Physiology .....	4
BIOL 205 General Microbiology .....	5
<u>BIOL 210A Introduction to the Biological Sciences I.....</u>	<u>4</u>
BIOL 210B Introduction to the Biological Sciences II.....	4

<u>BIOL 230 Human Anatomy .....</u>	<u>4</u>
<u>BIOL 235 Human Physiology.....</u>	<u>4</u>
CHEM 100 Fundamentals of Chemistry .....	3
CHEM 100L Fundamentals of Chemistry Laboratory.....	1
<u>CHEM 103 General, Organic, and Biological Chemistry.....</u>	<u>5</u>
CHEM 130 Introduction to Organic and Biological Chemistry .....	3
CHEM 130L Introduction to Organic and Biological Chemistry Laboratory .....	1
CHEM 200 General Chemistry I – Lecture .....	3
CHEM 200L General Chemistry I – Laboratory.....	2
CHEM 201 General Chemistry II – Lecture .....	3
CHEM 201L General Chemistry II – Laboratory.....	2
MATH 116 College and Matrix Algebra .....	3
MATH 119 Elementary Statistics .....	3
MATH 121 Basic Techniques of Applied Calculus I.....	3
MATH 141 Precalculus .....	5
MATH 150 Calculus with Analytic Geometry I.....	5
PHYS 125 General Physics .....	5
PSYC 101 General Psychology.....	3
PSYC 258 Behavioral Science Statistics.....	3
PSYC 260 Introduction to Physiological Psychology.....	3
SOCO 101 Principles of Sociology .....	3
EXSC 113A Swimming I.....	0.5-1
EXSC 113B Swimming II.....	0.5-1
EXSC 113C Swimming III.....	0.5-1
EXSC 113D Swimming IV .....	0.5-1
EXSC 114A Aquatic Fitness I.....	0.5-1
EXSC 114B Aquatic Fitness II.....	0.5-1
EXSC 114C Aquatic Fitness III .....	0.5-1
EXSC 114D Aquatic Fitness IV.....	0.5-1
EXSC 115A Water Exercise I.....	0.5-1
EXSC 115B Water Exercise II.....	0.5-1
EXSC 115C Water Exercise III.....	0.5-1



## Exercise Science

EXSC 115D Water Exercise IV .....	0.5-1	EXSC 174C Soccer III .....	0.5-1
EXSC 124A Aerobic and Core Conditioning I .....	0.5-1	EXSC 174D Soccer IV .....	0.5-1
EXSC 124B Aerobic and Core Conditioning II .....	0.5-1	EXSC 176A Softball I .....	0.5-1
EXSC 124C Aerobic and Core Conditioning III .....	0.5-1	EXSC 176B Softball II .....	0.5-1
EXSC 124D Aerobic and Core Conditioning IV .....	0.5-1	EXSC 176C Softball III .....	0.5-1
EXSC 125A Aerobic Dance I .....	0.5-1	EXSC 176D Softball IV .....	0.5-1
EXSC 125B Aerobic Dance II .....	0.5-1	EXSC 178A Tennis I .....	0.5-1
EXSC 125C Aerobic Dance III .....	0.5-1	EXSC 178B Tennis II .....	0.5-1
EXSC 125D Aerobic Dance IV .....	0.5-1	EXSC 178C Tennis III .....	0.5-1
EXSC 126A Cardio Conditioning I .....	0.5-1	EXSC 178D Tennis IV .....	0.5-1
EXSC 126B Cardio Conditioning II .....	0.5-1	EXSC 182A Volleyball I .....	0.5-1
EXSC 126C Cardio Conditioning III .....	0.5-1	EXSC 182B Volleyball II .....	0.5-1
EXSC 126D Cardio Conditioning IV .....	0.5-1	EXSC 182C Volleyball III .....	0.5-1
EXSC 135A Individual Conditioning I – Fundamentals .....	0.5-1	EXSC 182D Volleyball IV .....	0.5-1
EXSC 135B Individual Conditioning II – Beginning .....	0.5-1	EXSC 184A Water Polo I .....	0.5-1
EXSC 135C Individual Conditioning III – Intermediate .....	0.5-1	EXSC 184B Water Polo II .....	0.5-1
EXSC 135D Individual Conditioning IV – Advanced .....	0.5-1	EXSC 184C Water Polo III .....	0.5-1
EXSC 136A Off-Season Conditioning for Sport I .....	0.5-1	EXSC 184D Water Polo IV .....	0.5-1
EXSC 136B Off-Season Conditioning for Sport II .....	0.5-1	EXSC 204 Intercollegiate Basketball I .....	2-3.5
EXSC 139A Weight Training I .....	0.5-1	EXSC 205 Intercollegiate Basketball II .....	2-3.5
EXSC 139B Weight Training II .....	0.5-1	EXSC 214 Intercollegiate Soccer I .....	2-3.5
EXSC 139C Weight Training III .....	0.5-1	EXSC 215 Intercollegiate Soccer II .....	2-3.5
EXSC 139D Weight Training IV .....	0.5-1	EXSC 216 Intercollegiate Softball I .....	2-3.5
EXSC 145A Yoga I-Fundamentals of Yoga .....	0.5-1	EXSC 220 Intercollegiate Tennis I .....	2-3.5
EXSC 145B Yoga II-Beginning Yoga .....	0.5-1	EXSC 221 Intercollegiate Tennis II .....	2-3.5
EXSC 145C Yoga III-Intermediate .....	0.5-1	EXSC 226 Intercollegiate Water Polo I .....	2-3.5
EXSC 145D Yoga IV - Advanced Level .....	0.5-1	EXSC 227 Intercollegiate Water Polo II .....	2-3.5
EXSC 147A Kickboxing I-Fundamental .....	0.5-1		
EXSC 147B Kickboxing II-Beginning .....	0.5-1		
EXSC 147C Kickboxing III-Intermediate .....	0.5-1		
EXSC 147D Kickboxing IV-Advanced .....	0.5-1		
EXSC 148A Martial Arts I-Fundamental .....	0.5-1		
EXSC 148B Martial Arts II-Beginning .....	0.5-1		
EXSC 148C Martial Arts III-Intermediate .....	0.5-1		
EXSC 148D Martial Arts IV-Advanced .....	0.5-1		
EXSC 154A Badminton I .....	0.5-1		
EXSC 154B Badminton II .....	0.5-1		
EXSC 154C Badminton III .....	0.5-1		
EXSC 154D Badminton IV .....	0.5-1		
EXSC 158A Basketball I .....	0.5-1		
EXSC 158B Basketball II .....	0.5-1		
EXSC 158C Basketball III .....	0.5-1		
EXSC 158D Basketball IV .....	0.5-1		
EXSC 174A Soccer I .....	0.5-1		
EXSC 174B Soccer II .....	0.5-1		

**Total Units = 18**

ACTION

Adoption of a program revision at Miramar College.

Proposed program revision at Miramar College:

**Associate of Arts Degree  
Mathematics Studies**

<b>Courses Required for the Major:</b>	<b>Units</b>
MATH 150 Calculus with Analytic Geometry I.....	5
MATH 151 Calculus with Analytic Geometry II.....	4
MATH 252 Calculus with Analytic Geometry III.....	4

PHIL 101 Symbolic Logic .....	3
PHYN 100 Survey of Physical Science.....	3
PHYS 195 Mechanics .....	5
PHYS 196 Electricity and Magnetism.....	5
PHYS 197 Waves, Optics and Modern Physics .	5
PSYC 101 General Psychology.....	3
PSYC 258 Behavioral Science Statistics.....	3
SOCO 101 Principles of Sociology .....	3

**Select at least 5 units from the following:**

	<b>Units</b>
ACCT 116A Financial Accounting .....	4
ACCT 116B Managerial Accounting .....	4
BIOL 210A Introduction to the Biological Sciences I.....	4
BIOL 210B Introduction to the Biological Sciences II.....	4
CHEM 200 General Chemistry I – Lecture.....	3
CHEM 200L General Chemistry I – Laboratory.....	2
CISC 181 Principles of Information Systems.....	4
CISC 186 Visual Basic Programming .....	4
<del>CISC 189A Introduction to Programming I.....</del>	<del>4</del>
<del>CISC 189B Introduction to Programming II.....</del>	<del>4</del>
CISC 190 Java Programming .....	4
CISC 192 C/C++ Programming .....	4
<del>CISC 205 Object Oriented Programming using C++.....</del>	<del>4</del>
CISC 210 System Analysis and Design.....	3
ECON 120 Principles of Macroeconomics.....	3
ECON 121 Principles of Microeconomics .....	3
GEOL 100 Physical Geology .....	3
GEOL 101 Physical Geology Laboratory.....	1
MATH 119 Elementary Statistics.....	3
MATH 245 Discrete Mathematics .....	3
MATH 254 Introduction to Linear Algebra .....	3
MATH 255 Differential Equations.....	3
PHIL 100 Logic and Critical Thinking.....	3

**Total Units = 18**

ACTION

Adoption of a program revision at Miramar College.

Proposed program revision at Miramar College:

**Associate of Science Degree  
Pre-Engineering Studies**

<b>Courses Required for the Major:</b>	<b>Units</b>
CHEM 200 General Chemistry I – Lecture .....	3
MATH 150 Calculus with Analytic Geometry I .....	5

**Select at least 10 units from the  
following:**

	<b>Units</b>
ACCT 116A Financial Accounting .....	4
BIOL 205 General Microbiology .....	5
BIOL 210A Introduction to the Biological Sciences I .....	4
BIOL 210B Introduction to the Biological Sciences II .....	4
BIOL 215 Introduction to Zoology .....	4
BIOL 250 Introduction to Botany .....	4
BUSE 140 Business Law and the Legal Environment .....	3
CHEM 130 Introduction to Organic and Biological Chemistry .....	3
CHEM 200L General Chemistry I – Laboratory .....	2
CHEM 201 General Chemistry II – Lecture .....	3
CHEM 201L General Chemistry II – Laboratory .....	2
<del>CISC 189A Introduction to Programming I .....</del>	<del>4</del>
<del>CISC 189B Introduction to Programming II .....</del>	<del>4</del>
CISC 190 Java Programming .....	4
CISC 192 C/C++ Programming .....	4
ECON 121 Principles of Microeconomics .....	3
GEOL 100 Physical Geology .....	3
GEOL 101 Physical Geology Laboratory .....	1
MATH 119 Elementary Statistics .....	3
MATH 151 Calculus with Analytic Geometry II .....	4
MATH 245 Discrete Mathematics .....	3
MATH 252 Calculus with Analytic Geometry III .....	4

MATH 254 Introduction to Linear Algebra .....	3
MATH 255 Differential Equations .....	3
PHYS 125 General Physics .....	5
PHYS 126 General Physics II .....	5
PHYS 195 Mechanics .....	5
PHYS 196 Electricity and Magnetism .....	5
PHYS 197 Waves, Optics and Modern Physics ..	5
PSYC 258 Behavioral Science Statistics .....	3

**Total Units = 18**