

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:

Agriculture

Adoption of four new courses at City College. (**Attachment A**)

Chinese

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

Diesel Technology

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

Futures Studies

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

Homeland Security

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

Mecomtronics

Adoption of five course deactivations at City College. (**Attachment F1-F2**)

Radiologic Technician

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

Chinese

Adoption of a new program at Mesa College. (**Attachment H**)

Computer Business Technology

Adoption of two program revisions at City College. (**Attachment I**)

Diesel Technology

Adoption of a new program at Miramar College. (**Attachment J**)

Otto Lee
Vice Chancellor
Instructional Services

Sociology

Adoption of a program revision at Mesa College. (**Attachment K**)

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.

ACTION

Adoption of four new courses at City College.

Proposed new courses at City College:

108 Building Fertile Soil Organically
24 - 27 hours lecture, 72 - 81 hours lab, 3 units
Letter Grade or Pass/No Pass Option

Advisory: English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6.

This course demonstrates the vital connection between soil and the food chain that sustains life on this planet. Topics include current trends in soil erosion and degradation, the many roles that soil plays in our environment, symbiotic relationships between beneficial microorganisms and plants, and disease and pest suppression through proper soil management practices. Students participate in creating and maintaining enhanced soil fertility. This course is intended for students interested in the theory and practice of organic soil conservation and management. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

116 Drip Irrigation Basics
32 - 36 hours lecture, 2 units
Letter Grade or Pass/No Pass Option

Advisory: English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6.

This course integrates theoretical and practical aspects of modern high efficiency, low volume irrigation design, installation and maintenance. Topics include water use in California's Southwestern desert climate, site analysis, soil/water relationships, and transformation of existing wasteful irrigation systems to efficient low volume systems. Students troubleshoot and solve irrigation system problems and prepare a cost estimate for an irrigation system. This course is intended for students interested in agriculture, water conservation, or landscape technology. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

118 Sustainable Landscaping Using Organic Methods
48 - 54 hours lecture, 3 units
Letter Grade or Pass/No Pass Option

Advisory: English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6.

This course integrates theoretical and practical aspects of chemical-free environmentally friendly landscape design, installation and maintenance. The course provides tried and true alternative horticultural practices that work with, rather than control, nature. This course is intended for students interested in landscaping, agriculture, water conservation, green landscape architecture, landscape technology, environmental design and sustainability. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

126 Introduction to Permaculture Design
32 - 36 hours lecture, 2 units
Letter Grade or Pass/No Pass Option

Advisory: English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6.

This course introduces students to the strategies and techniques of applied permaculture design for creating resilient and livable human communities. Through observation of natural patterns and understanding mutually beneficial relationships in gardens as well as other permaculture principles, students learn how to grow food and plants in harmony with nature. This course is intended for students pursuing careers in agriculture, environmental studies, landscaping and urban planning. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

ACTION

Adoption of a course reactivation at Mesa College.

Proposed course reactivation at Mesa College:

202 Fourth Course in Mandarin Chinese
80 - 90 hours lecture, 5 units
Grade Only

Prerequisite: Chinese 201 with a grade of "C" or better, or equivalent.

This intermediate-advanced level study of Mandarin Chinese is the fourth course in the Chinese language sequence. Students use increasingly complex Mandarin language structures and vocabulary to listen, speak, read and write at the intermediate-advanced level. This course is intended for students who have completed the third course in the Chinese language sequence and who are planning on majoring in Chinese or are interested in learning Chinese for their personal enrichment. (FT)
Associate Degree Credit & transfer to CSU and/or private colleges and universities.

Diesel Technology

ACTION

Adoption of two new courses at Miramar College.

Proposed new courses at Miramar College:

**101 Heavy Duty Truck, Advanced
Transportation, Equipment Preventive
Maintenance and Inspections
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.
This course covers the fundamental skills necessary for preventive maintenance on trucks and other heavy-duty equipment. Students learn to perform inspection and maintenance procedures on heavy duty trucks, alternative fueled trucks, heavy equipment. Topics include theory of maintenance practices, industry related Material Safety Data Sheets (MSDS) and hazardous materials (HAZMAT) documentation, California Biannual Inspection of Terminal (B.I.T.), heavy-duty shop tools and equipment usage, and service literature usage. This course is designed for students interested in the commercial diesel and alternative fuel industry. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

**131 Alternative-Fueled Engine Overhaul
48 - 54 hours lecture, 48 - 54 hours lab, 4 units
Grade Only**

Corequisite: Completion of or concurrent enrollment in: Diesel Technology 100 with a grade of "C" or better, or equivalent.
This course covers the fundamental skills necessary to perform major overhaul operations on alternative-fueled engines. Topics include theory of operation, construction and application, and use of repair shop tools and equipment associated with large bore alternative-fueled engines. This course is designed for students who have prior experience in the diesel industry. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

ACTION

Adoption of a new course at City College.

Proposed new course at City College:

250 Field Experience in Futures Studies
16 - 54 hours lecture, 32 - 108 hours other, 1-3
units
Grade Only

Prerequisite: Futures Studies 101 with a grade of "C" or better, or equivalent.

Advisory: English 101 with a grade of "C" or better, or equivalent or Assessment Skill Level R6 and W6.

Students in this course develop and implement field experience projects under the supervision of college faculty. In cooperation with the staff of community organizations and agencies, students design these projects to assist the college's neighborhood communities. Students gain hands-on experience in project planning, development, implementation and evaluation. Students meet regularly with faculty and peers to receive feedback, support and guidance in their community projects. This course may be repeated up to two times, but the total units earned may not exceed three units. This course is intended for students interested in Futures Studies. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

ACTION

Adoption of a new course at Miramar College.

Proposed new course at Miramar College:

100 Introduction to Homeland Security
48 - 54 hours lecture, 3 units
Letter Grade or Pass/No Pass Option

Advisory: English 48 and English 49 with a grade of "C" or better, or equivalent or Assessment Skill Level R5 and W5.

This course introduces the structure, organization and components of the Department of Homeland Security. Students examine the importance of the agencies associated with Homeland Security and their interrelated duties and relationships. Other topics include significant historical events; state, national, and international law; and contemporary threats. This course is intended for students employed or seeking employment with the Department of Homeland Security as well as anyone interested in the role of Homeland Security in U.S. government. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

ACTION

Adoption of five course deactivations at City College.

Proposed course deactivations at City College (no longer active at any college):

44 Supervised Tutoring

**0 units
No Grade**

This course is designed to prepare the student to succeed in the corequisite and subsequent subject matter courses. This course may be taken four times with a different corequisite subject matter course. College noncredit course.

**101A Basic Computer Systems Maintenance, Support, and Applications
32 - 36 hours lecture, 48 - 54 hours lab, 3 units
Grade Only**

This course focuses on computer hardware and software and their application to engineering and maintenance. Students become computer literate as well as learn how to support, maintain, upgrade and do basic hardware and software troubleshooting, and use the computer for engineering problem-solving and documentation using spreadsheets and database software, word processors, and applications packages. Additional areas addressed within this course are software-licensing requirements, use of the Internet and manufacturer's computer bulletin boards to download software updates and technical specifications. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

**104A Applied C Programming for Technology
32 - 36 hours lecture, 48 - 54 hours lab, 3 units
Grade Only**

Prerequisite: Mathematics 181 with a grade of "C" or better, or equivalent.

This is an introduction to structured programming using ANSI C, which is used in engineering technology. Programming problems applicable to engineering technology, physics, and mathematics are used to develop and illustrate the structures of the C programming language. Topics include data types, operators, functions, input/output operations, decision statements, loop structures, recursion, pointers, arrays, strings, and binary I/Q operations. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

**120C Basic Physics for Technical Applications III
48 - 54 hours lecture, 48 - 54 hours lab, 4 units
Grade Only**

Prerequisite: Mecomtronics 120B and Mathematics 183, each with a grade of "C" or better, or equivalent.

Corequisite: Mathematics 184.

This course is the third course in a three-course sequence in technical science and physics and is intended for students enrolled in the Engineering Technology/Mecomtronics program. This course presents the tools that are used in technical applications. The topics of study include the electric fields, electric potential, circuit elements, DC and AC circuit analysis, magnetic field, electromagnetism, geometric and physical optics, the special theory of relativity, discoveries in modern physics and an introduction to quantum mechanics. Emphasis is placed on the conceptual and computational principles of physics and experimental studies that demonstrate the use of the equations discussed in the theory. Analytical reading and problem solving are required for success in this course. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities. CSU General Education.

204A Industrial Electronics

**48 - 54 hours lecture, 48 - 54 hours lab, 4 units
Grade Only**

Prerequisite: Mecomtronics 201A, 202A and Mathematics 183, each with a grade of "C" or better, or equivalent.

This is a capstone course for the Engineering Technology/Mecomtronics program and introduces the fundamentals of industrial electronics as well as provides an environment in which students in this program use a combination of skills in a major project. Modern industrial electronics and control devices are introduced through various activities. Topics include but are not limited to logic controllers, thyristers, opto-electronic devices, and motors. This course is intended solely for students enrolled in the fourth semester of the Engineering Technology/Mecomtronics program. (FT) Associate Degree Credit & transfer to CSU and/or private colleges and universities.

Radiologic Technology

ACTION

Adoption of two new courses at Mesa College.

Proposed new courses at Mesa College:

85 Fluoroscopy and Radiation Safety
40 - 45 hours lecture, 2.5 units
Grade Only

Corequisite: Radiologic Technology 85L.
Corequisite: Completion of or concurrent enrollment in: Radiologic Technology 220 and 230, each with a grade of "C" or better, or equivalent.

Topics include California state-approved curriculum to satisfy the didactic educational requirements for a California fluoroscopy permit. A minimum of forty (40) hours of lecture will include topics such as fluoroscopy regulations and radiation safety, fluoroscopic equipment, image intensifiers, closed-circuit equipment, image recording and image recording equipment, special fluoroscopic equipment, mobile image intensified units, anatomy and physiology of the eye and three-dimensional and radiologic anatomy. This is an advanced course in fluoroscopy and radiation protection for radiologic technology students. (FT) Associate Degree Credit only and not Transferable.

85L Fluoroscopy and Radiation Safety
Laboratory
48 - 54 hours lab, 1 unit
Grade Only

Corequisite: Radiologic Technology 85.
Corequisite: Completion of or concurrent enrollment in: Radiologic Technology 220 and 230, each with a grade of "C" or better, or equivalent.

Activities include California state-mandated curriculum to satisfy the laboratory educational requirements for 1) general diagnostic radiologic technology (minimum of 25 hours), and 2) California fluoroscopy permit (minimum of 15 hours). Laboratory activities will include, but not be limited to, 1) methods and safe practices to reduce radiation doses to patients and personnel in general and fluoroscopic procedures, 2) general and fluoroscopic image quality and recording, and 3) quality control procedures. This is an advanced laboratory course in fluoroscopy and radiation protection for radiologic technology students. (FT) Associate Degree Credit only and not Transferable.

ACTION

Adoption of a new program at Mesa College.

Proposed new program at Mesa College:

**Associate in Arts Degree
Chinese**

Courses Required for the Major:	Units
CHIN 101 First Course in Mandarin Chinese	5
CHIN 102 Second Course in Mandarin Chinese	5
CHIN 201 Third Course in Mandarin Chinese	5
CHIN 202 Fourth Course in Mandarin Chinese	5
CHIN 210 Conversation and Composition in Chinese I	3
CHIN 211 Conversation and Composition in Chinese II	3
	Total Units = 26

Computer Business Technology

ACTION

Adoption of a two program revisions at City College.

Proposed program revisions at City College:

**Certificate of Achievement
Legal Administrative Assistant**

Courses Required for the Major:	Units
CBTE 101 Keyboarding for Computers or	
CBTE 095 Keyboarding/Typing Speed Development	.1
CBTE 114 Introduction to Microsoft Windows	.....1
CBTE 120 Beginning Microsoft Word	.....2
CBTE 122 Intermediate Microsoft Word	.....3
CBTE 127 Introduction to PowerPoint	.....2
CBTE 140 Microsoft Excel	.....2
CBTE 164 Introduction to Microsoft Outlook	.....1
CBTE 205 Records Management	.....3
<u>LEGL 100A Introduction to Paralegalism</u>	<u>.....1</u>
LEGL 100B Legal Procedures	.....2
LEGL 110 Legal Writing & Communications	.....3
BUSE 101 Business Mathematics	.....3
BUSE 119 Business Communications	.....3
<u>BUSE 140 Business Law and the Legal Environment</u>	<u>...3</u>
CBTE 210 Computers in Business or	
CBTE 211 Office Administration	.....3
Total Units = 30	

**Associate in Science Degree
Legal Administrative Assistant**

Courses Required for the Major:	Units
CBTE 101 Keyboarding for Computers or	
CBTE 095 Keyboarding/Typing Speed Development	..... 1
CBTE 114 Introduction to Microsoft Windows	..... 1
CBTE 120 Beginning Microsoft Word	..... 2
CBTE 122 Intermediate Microsoft Word	..... 3
CBTE 127 Introduction to PowerPoint	..... 2
CBTE 140 Microsoft Excel	..... 2
CBTE 164 Introduction to Microsoft Outlook	..... 1
CBTE 200 Office Telecommunications	..... 2
CBTE 205 Records Management	..... 3
<u>LEGL 100A Introduction to Paralegalism</u>	<u>..... 1</u>
LEGL 100B Legal Procedures	..... 2
LEGL 110 Legal Writing & Communications	..... 3
BUSE 101 Business Mathematics	..... 3
BUSE 119 Business Communications	..... 3
<u>BUSE 140 Business Law and the Legal Environment</u>	<u>..... 3</u>
CBTE 210 Computers in Business or	
CBTE 211 Office Administration	..... 3
Total Units = 32	

Diesel Technology

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

- A. Labor Market Information¹: The annual average number of persons employed in the Heavy Equipment Powertrains program area is 13,100 in San Diego County in the 2006 Employment year. Approximately 2,400 new job openings are projected through 2016.
- B. Duplication²: None.
- C. Effectiveness³: Program Area OR the projected enrollment 225 students for the 2010-2011 year in a New Program area.

- 1. Information was obtained from the Miramar College Research Committee.
- 2. Information was obtained from the Miramar College Research Committee.
- 3. Information was obtained from Miramar College Research Committee.

ACTION

Adoption of a new program at Miramar College.

Proposed new program at Miramar College:

**Certificate of Performance
Heavy Equipment Powertrains**

Courses Required for the Major:

DIES 100 Introduction to Diesel Technology	2
DIES 105 Measuring Tools and Applied Mathematics	2
DIES 210 Brakes, Final Drives and Steering Systems	3
DIES 220 Undercarriage	3
DIES 230 Heavy Equipment Transmissions	3
Total Units =	13

ACTION

Adoption of a program revision at Mesa College.

Proposed program revision at Mesa College:

**Associate in Arts Degree
Sociology**

Courses Required for the Major:	Units
SOCO 101 Principles of Sociology	3
SOCO 110 Contemporary Social Problems	3
Select Twelve Units From The Following:	
SOCO 125 1 Sociology of the Family	3
SOCO 201 Advanced Principles of Sociology	3
SOCO 270 Work Experience	1-4
<u>SOCO 223 Globalization and Social Change</u>	<u>3</u>
ANTH 103 Introduction to Cultural Anthropology.....	3
PSYC 101 General Psychology	3
Total Units = 18	