

A. NAME OF AGENDA ITEM

Consideration and approval of new or revised courses and programs.

B. STATEMENT OF ISSUE/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 three course deactivations at City College. **(Attachment A)**

Anthropology

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

Architecture

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

Art-Fine Art

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

Biology

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

Computer and Information Sciences

Adoption of five course deactivations at City College. **(Attachment F)**

Computer Business Technology

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

Computer Business Technology

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

Computer Business Technology

Adoption of a course deactivation at City College. **(Attachment I)**

Digital Journalism

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

English

Adoption of a course reactivation at City, Mesa, and Miramar College. **(Attachment K)**

Otto W. K. Lee, Ed.D.
Vice Chancellor
Instructional Services

B. STATEMENT OF ISSUE/PURPOSE (continued)

1. Background and Purpose: (continued)

Fire Protection Technology

Adoption of three course deactivations at Miramar College. **(Attachment L)**

Information, Network, and Web Technologies

Adoption of two new courses at City College. **(Attachment M)**

Information, Network, and Web Technologies

Adoption of six course deactivations at City College. **(Attachment N)**

Journalism

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

Mecomtronics

Adoption of two course deactivations at City College. **(Attachment P)**

Pipefitting (County Pipetrades)

Adoption of 18 course deactivations at City College. **(Attachment Q)**

Plumbing (County Pipetrades)

Adoption of 22 course deactivations at City College. **(Attachment R)**

Radiologic Technology

Adoption of four new courses at Mesa College. **(Attachment S)**

Administration of Justice

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

Agriculture

Adoption of a program revision at City College. **(Attachment U)**

Apprenticeship

Adoption of a program revision at City College. **(Attachment V)**

Apprenticeship

Adoption of a program deactivation at City College. **(Attachment W)**

Automotive Technology

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

Automotive Technology

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

Behavioral Sciences

Adoption of a program revision at City College. **(Attachment Z)**

Biology

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

Business Studies

Adoption of a new program at City College. **(Attachment BB)**

Business Studies

Adoption of a program revision at City College. **(Attachment CC)**

B.STATEMENT OF ISSUE/PURPOSE (continued)

1. Background and Purpose: (continued)

Computer and Information Sciences
Adoption of a program revision at Miramar College. (**Attachment DD**)

Computer Business Technology
Adoption of a program revision at City College. (**Attachment EE**)

Computer Business Technology
Adoption of a program deactivation at City College. (**Attachment FF**)

Computer Information Systems
Adoption of a new program at City College. (**Attachment GG**)

Computer Information Systems
Adoption of a program deactivation at City College. (**Attachment HH**)

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

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

Fire Protection Technology
Adoption of a program revision at Miramar College. (**Attachment KK**)

Health Information Technology
Adoption of a program revision at Mesa College. (**Attachment LL**)

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

Interior Design
Adoption of a program revision at Mesa College. (**Attachment NN**)

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

Liberal Arts and Sciences
Adoption of a program revision at City College. (**Attachment PP**)

Liberal Arts and Sciences
Adoption of a program revision at Mesa College. (**Attachment QQ**)

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

Radiologic Technology
Adoption of program revision at Mesa College. (**Attachment SS**)

World Language Studies
Adoption of a program revision at Miramar College. (**Attachment TT**)

B. STATEMENT OF ISSUE/PURPOSE (continued)

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 three course deactivations at City College.

Proposed course deactivations at City College:

106 Warm Season Organic Production
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 Levels R6 and W6.

This course is a hands-on study of cultural practices, varieties, and economics of production of major warm season vegetable crops in San Diego County. Topics include strategies for starting and maintaining crops, innovative irrigation methods, essential weed and pest control measures, and marketing. Organic methods are emphasized. This course is intended for students interested in agriculture, environmental science, agricultural education and sustainability. (FT) Associate Degree Credit & transfer to CSU. UC Transfer Course List.

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 Levels 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. UC Transfer Course List.

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 Levels 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.

ACTION

Adoption of a new course at Mesa College.

Proposed new course at Mesa College:

110 Anthropology of Magic, Witchcraft, and Religion

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

Advisory: English 101 or English 105, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6.

This course is a survey of magic and religion as expressed through rituals, myths, and symbols in cross-cultural perspective. Emphasis is placed on the theoretical and methodological approaches to the study of magic, witchcraft, and religion. This course is intended for students majoring in anthropology and all other interested students.

(FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a new course at Mesa College.

Proposed new course at Mesa College:

**100A Introduction to Architecture and
Landscape Architecture**

48 - 54 hours lecture, 3 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 introduces students to the professions of Architecture and Landscape Architecture. Emphasis is placed on the history, theory, professional practices, education, and licensing requirements of Architecture and Landscape Architecture. This course is intended for students interested in exploring the field of Environmental Design. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a new course at City College.

Proposed new course at City College:

**207 Industrial and Architectural Ceramic
Design I**

32 - 36 hours lecture, 64 - 72 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 Levels R6 and W6; Art-Fine Art 150A and Art-Fine Art 195A, each with a grade of "C" or better, or equivalent.

This course is an overview of contemporary industrial and architectural ceramic design, emphasis on creating multiples in production and architectural ceramics. Students produce the designs suitable for mold making and casting to produce multiples. This Course is designed for students interested in arts, public arts and creating a small business. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a course deactivation at Miramar College.

Proposed course deactivation at Miramar College:

285 Tropical Biology Field Experience

48 - 54 hours lab, 1 units

Letter Grade or Pass/No Pass Option

Advisory: Completion of or concurrent enrollment in Biology 100, Biology 105 or Biology 107, each with a grade of "C" or better, or equivalent.

This field-oriented survey of plant and animal life in the tropics provides practical experience in scientific observation and emphasizes identification and ecology. This course is designed for students with little field experience in biology and an interest in tropical forest ecology. (FT) Associate Degree Credit & transfer to CSU. CSU General Education.

Computer and Information Sciences

ACTION

Adoption of five course deactivations at City College.

Proposed course deactivations at City College:

114 Introduction to Computer Graphics and Web Media
24 - 27 hours lecture, 24 - 27 hours lab, 2 units
Grade Only

This course offers a hands-on introduction to the fundamental concepts, current applications and state-of-the art hardware and software in computer graphics and computer visualization technology. Students use professional authoring software to design, develop, debug and document computer presentations for use in business and the World Wide Web. (FT) Associate Degree Credit & transfer to CSU.

121 Introduction to Operating Systems
12 - 13.5 hours lecture, 12 - 13.5 hours lab, 1 units
Grade Only

This course is an introductory, hands-on study of computer operating systems for general users. Emphasis is placed on the commands and utilities necessary for effective use of computer systems. This course may be offered for Disk Operating System (DOS), Macintosh, Microsoft Windows, OS/2 and/or Unix. (FT) Associate Degree Credit & transfer to CSU.

130 Introduction to Local Area Networks
12 - 13.5 hours lecture, 12 - 13.5 hours lab, 1 units
Grade Only

This course is an introductory study of microcomputer local area and wide area network development, use and administration. Emphasis is placed on presenting students with a breadth of knowledge from wiring to applications and including hardware, software, transmission media, packets, frames, network topology, routing, protocols and layering. (FT) Associate Degree Credit & transfer to CSU.

132 Intermediate Local Area Networking
12 - 13.5 hours lecture, 12 - 13.5 hours lab, 1 units
Grade Only

This course is an introductory study of internetworking and network applications. Emphasis is placed on presenting students with a breadth of knowledge from wiring to applications and including Internet architecture, protocols, datagrams, routing, the client-server model, electronic mail, web document technologies, network management and security. (FT) Associate Degree Credit & transfer to CSU.

161 Software Project Management

48 - 54 hours lecture, 48 - 54 hours lab, 4 units

Grade Only

Advisory: Computer and Information Sciences 181, Computer and Information Sciences 182, Computer and Information Sciences 186, Computer and Information Sciences 187, Computer and Information Sciences 190, Computer and Information Sciences 192, Computer and Information Sciences 193 or Mathematics 107, each with a grade of "C" or better, or equivalent.

This course prepares computer science, information technology, information systems, and software engineering students with a thorough introduction to the tools and techniques associated with managing software development projects. This knowledge is required in any substantive software development project. This course assumes adequate understanding of the process of software development. It also requires access to, and the use of, Microsoft Project, a software tool that is part of the Microsoft Office family. This course is of interest to students majoring in the areas cited above, and to professional development students seeking to expand their knowledge and skills in software development management.

ACTION

Adoption of a new course at City College.

Proposed new course at City College:

94 Introduction to Computer Keyboarding
48 - 54 hours lab, 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 introductory keyboarding course develops keyboarding skills and techniques using the touch method on a computer keyboard. Students learn the alphabetic, number, symbol keys, and 10-key numeric keypad and build speed and accuracy utilizing keyboarding learning software. Upon completion, students should be able to accurately keyboard at least 25 words per minute. This course is designed for students interested in developing and improving their keyboarding skills for computer usage, for career preparation, or job advancement. (FT) Associate Degree Credit only and not Transferable.

ACTION

Adoption of a new course at City and Mesa College.

Proposed new course at City and Mesa College:

154 Microsoft Project

24 - 27 hours lecture, 24 - 27 hours lab, 2 units

Grade Only

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

This course provides students with fundamental knowledge and skills required to work with Microsoft Project. Students create and refine project schedules, resources, calendars, and reports. This course is designed for students majoring in Business, Computer Business Technology, and/or Information, Network, and Web Technologies, as well as for business professionals seeking to update project management skills. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a course deactivation at City College.

Proposed course deactivation at City College:

**167 Webpage Creation Using Microsoft
Expression Web**

**32 - 36 hours lecture, 48 - 54 hours lab, 3 units
Grade Only**

Advisory: English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5; Computer Business Technology 101, Computer Business Technology 114 and Computer Business Technology 161, each with a grade of "C" or better, or equivalent.

This course teaches students how to create websites using Microsoft Expression Web. Students use a hands-on approach to design, analyze, create, manage, and publish websites on the Internet for personal or business use. Topics include formatting text using Hypertext Markup Language (HTML) and Extensible Hypertext Markup Language (XHTML) and Cascading Style Sheets (CSS). Other topics include images, hyperlinks, templates, tables, forms, and page layout and design. This course is intended for students majoring in Computer Business Technology or others interested in web design. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a new course at City College.

Proposed new course at City College:

205 Community Journalism for Multimedia
32 - 36 hours lecture, 48 - 54 hours lab, 3 units
Grade Only

Advisory: English 101 or English 105, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R6 and W6; Digital Journalism 200, Digital Journalism 210, Radio Television and Film 140, Journalism 200 or Journalism 210A, each with a grade of "C" or better, or equivalent.

This course offers a new-media approach to covering public affairs for online and print news environments. The course guides students through the process of community news reporting. Topics include coverage of local and regional government, city boards, police, courts, and school boards. The course also covers legal and ethical issues in news media, including the unique challenges posed by emerging online formats. This course is designed for students pursuing media-related majors and for those seeking employment in the field. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a course reactivation at City, Mesa, and Miramar College.

Proposed course reactivation at City, Mesa, and Miramar College:

249B Introduction to Creative Writing II

48 - 54 hours lecture, 3 units

Letter Grade or Pass/No Pass Option

Prerequisite: English 249 with a grade of "C" or better, or equivalent.

This course is an exploration and application of creative writing with a focus on fiction and poetry. Students use complex elements of poetry and fiction writing to analyze the works of professional writers, to create original pieces, and to critique the work of their peers as well as their own. This course is intended for students majoring in English and all students interested in fiction and fiction writing. (FT) Associate Degree Credit & transfer to CSU.

Fire Protection Technology

ACTION

Adoption of three course deactivations at Miramar College.

Proposed course deactivations at Miramar College:

**392C Special Topics in Fire Management:
Management 2C**

**16 - 18 hours lecture, 24 - 27 hours lab, 1.5
units
Grade Only**

Prerequisite: Fire Protection Technology 200A, Fire Protection Technology 200B, Fire Protection Technology 200C, Fire Protection Technology 201, Fire Protection Technology 202A, Fire Protection Technology 202B, Fire Protection Technology 203A, Fire Protection Technology 206B and Fire Protection Technology 206A, each with a grade of "C" or better or equivalent State Fire Training System Regulation.

Advisory: 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. The focus area for Management 2C (392C) is Personnel and Labor Relations. (FT) Associate Degree Credit & transfer to CSU.

**392D Special Topics in Fire Management:
Management 2D**

**8 - 45 hours lecture, 0.5-2.5 units
Grade Only**

Prerequisite: Fire Protection Technology 200A, Fire Protection Technology 200B, Fire Protection Technology 200C, Fire Protection Technology 201, Fire Protection Technology 202A, Fire Protection Technology 202B, Fire Protection Technology 203A, Fire Protection Technology 206B and Fire Protection Technology 206A, each with a grade of "C" or better or equivalent State Fire Training System Regulation.

Advisory: 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. The focus area for Management 2D (392D) is Strategic Planning. (FT) Associate Degree Credit & transfer to CSU.

**392E Special Topics in Fire Management:
Management 2E**

8 - 45 hours lecture, 0.5-2.5 units

Grade Only

Prerequisite: Fire Protection Technology 200A, Fire Protection Technology 200B, Fire Protection Technology 200C, Fire Protection Technology 201, Fire Protection Technology 202A, Fire Protection Technology 202B, Fire Protection Technology 203A, Fire Protection Technology 206B and Fire Protection Technology 206A, each with a grade of "C" or better or equivalent State Fire Training System Regulation.

Advisory: 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. The focus area for Management 2E (392E) is Ethics and the Challenge of Leadership. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of two new courses at City College.

Proposed new courses at City College:

105 Project +

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

Corequisite: Completion of or concurrent enrollment in Computer Business Technology 154 with a grade of "C" or better, or equivalent.

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

This course provides students with the business, interpersonal and technical project management skills required to initiate, plan, manage, and close projects with a technical component. This course follows the official Computing Technology Industry Association (CompTia) curriculum and is intended to prepare students to take the Project + examination. This course is designed for students majoring in Business and/or Information, Network, and Web technologies as well as for business professionals seeking to update project management skills. (FT) Associate Degree Credit & transfer to CSU.

145 Linux + Prep

**48 - 54 hours lecture, 48 - 54 hours lab, 4 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 a project-oriented course that provides students with the knowledge and skills to work as a junior level Linux administrator. This course follows the official Computing Technology Industry Association (CompTIA) curriculum and is intended to prepare students to take the Linux+ exam. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of six course deactivations at City College.

Proposed course deactivations at City College:

90A Convergent Network Technology: Basic Data Communications

**32 - 36 hours lecture, 2 units
Pass/No Pass**

Corequisite: Information, Network and Web Technologies 90B, Information, Network and Web Technologies 90C, Information, Network and Web Technologies 90D, Information, Network and Web Technologies 90E and Information, Network and Web Technologies 90F.

Limitation on Enrollment: This course is not open to students with previous credit for Computer and Information Science 265C.

This course provides students with basic data communications knowledge and skills. The student is introduced to the technology of networking architecture, packet - switching, fiber optics, data modalities for blended solutions. This course follows Computer-Prep Curriculum and is intended to prepare students to take the Computer-Prep Certified in Convergent Network Technologies (CCNT) Basic Data Communications exam. (FT) Associate Degree Credit only and not Transferable.

90B Convergent Network Technology: Basic Telecommunications

**24 - 27 hours lecture, 1.5 units
Pass/No Pass**

Corequisite: Information, Network and Web Technologies 90A, Information, Network and Web Technologies 90C, Information, Network and Web Technologies 90D, Information, Network and Web Technologies 90E and Information, Network and Web Technologies 90F.

Limitation on Enrollment: This course is not open to students with previous credit for Computer and Information Science 265D.

This course provides students with basic telecommunications knowledge and skills. The student is introduced to the technology of networks, business communications systems, signaling, Internet telephony and switching. This course follows Computer-Prep Official Curriculum and is intended to prepare students to take the Computer-Prep Certified in Convergent Network Technologies (CCNT) Basic Telecommunications exam. (FT) Associate Degree Credit only and not Transferable.

**90C Convergent Network Technology:
Broadband Technologies**

**32 - 36 hours lecture, 2 units
Pass/No Pass**

Corequisite: Information, Network and Web Technologies 90A, Information, Network and Web Technologies 90B, Information, Network and Web Technologies 90D, Information, Network and Web Technologies 90E and Information, Network and Web Technologies 90F.

Limitation on Enrollment: This course is not open to students with previous credit for Computer and Information Science 265E.

This course provides students with basic broadband technologies knowledge and skills. The student develops an understanding for Convergent Technologies and the need for transmitting more than one type of signal simultaneously by way of divided channel. Emphasis is placed on the exploration of the technology of voice and data integration, frame relay, Synchronous Optical Network (SONET), Asynchronous Transfer Mode (ATM)/cell relay, Switched Multi-megabit Digital Service (SMDS), Broadband Integrated Services Digital Network (BISDN), Digital Subscriber Line (DSL), and Virtual Private Network (VPN). This course follows Computer-Prep Official Curriculum and is intended to prepare students to take the Computer-Prep Certified in Convergent Network Technologies (CCNT) Broadband Technologies exam. (FT) Associate Degree Credit only and not Transferable.

**90D Convergent Network Technology:
Computer Telephony Integration**

**16 - 18 hours lecture, 1 units
Pass/No Pass**

Corequisite: Information, Network and Web Technologies 90A, Information, Network and Web Technologies 90B, Information, Network and Web Technologies 90C, Information, Network and Web Technologies 90E and Information, Network and Web Technologies 90F.

Limitation on Enrollment: This course is not open to students with previous credit for Computer and Information Science 265F.

This course is designed to provide students with instruction in Computer-Telephony Integration (CTI) Essentials that build on Convergent Technologies competencies. The student is introduced to the technology of merging voice, video and data on a single network, and the intersection of telephone, television, cable and Internet networks. This course follows Computer-Prep Official Curriculum and is intended to prepare students to take the Computer-Prep Certified in Convergent Network Technologies (CCNT) Computer-Telephony Integration (CTI) Essentials exam. (FT) Associate Degree Credit only and not Transferable.

90E Convergent Network Technology: Local Area Networks (LANs)

**32 - 36 hours lecture, 2 units
Pass/No Pass**

Corequisite: Information, Network and Web Technologies 90A, Information, Network and Web Technologies 90B, Information, Network and Web Technologies 90C, Information, Network and Web Technologies 90D and Information, Network and Web Technologies 90F.

Limitation on Enrollment: This course is not open to students with previous credit for Computer and Information Science 265H.

This course provides students with basic training in local area networks (LANs). The student develops a critical understanding of the concepts and technology of LAN topologies, information transfer, transmission techniques, media standards, and network management. This course follows Computer-Prep Official Curriculum and is intended to prepare students to take Computer-Prep Certified in Convergent Network Technologies (CCNT) Local Area Networks (LANs) exam. (FT) Associate Degree Credit only and not Transferable.

90F Convergent Network Technology: Voice Over IP (VoIP) Essentials

**16 - 18 hours lecture, 1 units
Pass/No Pass**

Corequisite: Information, Network and Web Technologies 90A, Information, Network and Web Technologies 90B, Information, Network and Web Technologies 90C, Information, Network and Web Technologies 90D and Information, Network and Web Technologies 90E.

Limitation on Enrollment: This course is not open to students with previous credit for Computer and Information Science 265G.

This course is designed to assist students in learning Voice Over IP. This course builds knowledge of Convergent Technologies and focuses on understanding the principles of transmitting voice calls and fax over the Internet. Students analyze VoIP networks, bandwidth compression, the Gateway, packet prioritization, Resource Reservation Protocol (RSVP), H.320 and H.323, and Wide Area Network (WAN) engineering issues. This course follows Computer-Prep Official Curriculum and is intended to prepare students to take the Computer-Prep Certified in Convergent Network Technologies (CCNT) Voice Over IP (VoIP) Essentials exam. (FT) Associate Degree Credit only and not Transferable.

ACTION

Adoption of a new course at Mesa College.

Proposed new course Mesa College:

215A Magazine Writing and Production I
16 - 18 hours lecture, 96 - 108 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 Levels R6 and W6.

This course is designed to provide experience in writing, production, and publication of a student news magazine. Emphasis is placed on researching and writing in-depth magazine articles, taking feature photographs, and packaging all elements into one publication. Topics include the basic principles of magazine writing, editing, photography, design, and layout. This course is designed for students majoring in journalism and all students interested in magazine writing and production. (FT) Associate Degree Credit & transfer to CSU.

Mecomtronics

ACTION

Adoption of two course deactivations at City College.

Proposed course deactivations at City College:

102A DC Circuits

**32 - 36 hours lecture, 48 - 54 hours lab, 3 units
Grade Only**

Corequisite: Mathematics 181.

Advisory: Mathematics 96 with a grade of "C" or better, or equivalent or Assessment Skill Level M50.

This course, the first semester of a two-semester sequence in electric circuits, introduces DC electronics principles and practices through integration of theory, application, and structure discovery activities. Emphasis is placed on activity-based learning through a variety of hands-on projects. Topics include but are not limited to fundamental aspects of DC circuits and passive devices, Kirchhoff's voltage and current laws; mesh and nodal analysis; DC network theorems; applications using P-Spice, Electronics Workbench, or equivalent software; DC measurements and instrumentation; magnetism. (FT) Associate Degree Credit & transfer to CSU.

120B Basic Physics for Technical Applications II

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

Prerequisite: Mecomtronics 120A and Mathematics 182, each with a grade of "C" or better, or equivalent.

Corequisite: Mathematics 183.

This course is the second in a sequence of three introductory technical physics courses intended for the Engineering Technology/MECOMTRONICS program. This sequence of courses presents the tools that are used in technical applications. The topics of study include angular momentum and torque, solids and fluids, waves, temperature, heat transfer, the first and second laws of thermodynamics, and kinetic theory. Emphasis is placed on the conceptual and calculational nature of physical principles and on 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. CSU General Education.

Pipefitting (County Pipetrades)

ACTION

Adoption of 18 course deactivations at City College.

Proposed course deactivations at City College:

44 Supervised Tutoring in Pipefitting
No Grade/0 Units

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.

304 Heating I, Steam
48 - 54 hours lecture, 3 units
Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course provides an introduction to hot water steam heating, gravity hot water systems, forced hot water heating systems, problems caused by air in the systems, hot water piping connections, and installation of equipment safety devices for hot water boilers. (FT) Associate Degree Credit & transfer to CSU.

308 Pneumatic Controls
48 - 54 hours lecture, 3 units
Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course is a review of the fundamentals of pneumatics, controllers, controlled devices and auxiliary devices. The course includes day-night and heat-cooling thermostats, ventilation, heating, and cooling controls, humidity control, year-round air conditioning, and master-submaster systems. (FT) Associate Degree Credit & transfer to CSU.

310 Refrigeration and Air Conditioning
48 - 54 hours lecture, 3 units
Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course covers refrigeration and air conditioning systems. Emphasis is placed on the components in refrigeration and air conditioning systems, theories of electricity relevant to the trade, operation of evaporative condensers, maintenance on refrigeration systems, and pipe and line layout and installation in a refrigeration system. (FT) Associate Degree Credit & transfer to CSU.

314 Heating II Hydronics
48 - 54 hours lecture, 3 units
Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This Hydronics course introduces the technical aspects of the design, calculation and installation of hydronics heating and cooling systems. Emphasis is placed on residential, commercial, institutional and industrial hydronics applications. (FT) Associate Degree Credit & transfer to CSU.

Pipefitting (County Pipetrades)

318 Fitting Fabrication

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

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course provides the student with basic pipefitting skills; taking accurate measurements, cutting pipe and calculating fitting "take off". Topics include the difference between screw and welded pipe and their uses; proper and safe use of copper and plastic pipe as well as pipe hangers and supports. Students learn to apply pipe layout and fitting fabrication principles/procedures for elbows, tees and laterals used in the industrial piping industry. In addition the student learns to use welding experience and mathematics to design, lay out and fabricate fittings used in the pipefitting trade. (FT) Associate Degree Credit & transfer to CSU.

320 TIG Welding

**24 - 27 hours lecture, 24 - 27 hours lab, 2 units
Grade Only**

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course is designed to provide the apprentice with a working knowledge of the welding process known as TIG (Tungsten Inert Gas)/GTAW (gas tungsten arc welding). Students learn the fundamentals, the process, equipment, techniques, preparation, shielding gas and electrodes. Guided bend testing and quality weld inspection are also covered. Emphasis is on performing TIG/GTAW welding in a safe manner. (FT) Associate Degree Credit only and not Transferable.

322 Instrumentation and Automated Systems

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

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course introduces the operation, installation and testing of instruments and automated systems. Emphasis is placed on pressure measuring instruments, liquid level instruments, density measuring instruments, temperature and humidity measuring instruments, speed and position transmitters, automatic force balance controllers, pneumatic control valves, control valve accessories and instrumentation systems. (FT) Associate Degree Credit & transfer to CSU.

324 Pipe Drafting and Blueprint Reading

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

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course is an introduction to blueprint reading and drafting pertaining to domestic water systems and piping layout. Emphasis is placed on the use of drawing tools and appropriate pipefitting diagrams to draw waste vent systems and to diagram water and gas lines using mock-ups. (FT) Associate Degree Credit & transfer to CSU.

326 Advanced Piping Mathematics

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

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

Advanced Piping Mathematics is designed to introduce and develop the applied piping and calculating skills necessary in the piping industry. Topics include the application of trigonometry, offset problems, and pipe and tube bending mathematics. (FT) Associate Degree Credit only and not Transferable.

Pipefitting (County Pipetrades)

328 Pipefitters Code

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

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in
this trade.

This course reviews the fundamentals of
pipefitting. Topics include isometric drawing
interpretation, tools and tool safety, hydronics,
plan reading, and trigonometry tables. The
foundations of hydraulics, pneumatics,
refrigeration, arc welding and rigging are
introduced and explored. (FT) Associate Degree
Credit only and not Transferable.

330 Pipefitting Certification

**48 - 54 hours lecture, 3 units
Pass/No Pass**

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in
this trade.

This course covers the application of the most
current codes and state regulations governing
piping, mechanical installations and excavating
operations. Upon completion, the apprentice will
be prepared to take the Journeyman P.I.P.E. exam
and Cal/OSHA Excavation Competent Person
exam. (FT) Associate Degree Credit only and not
Transferable.

331 Arc Welding I

**16 - 18 hours lecture, 24 - 27 hours lab, 1.5
units
Grade Only**

Advisory: English 48, English 49 and
Mathematics 46, each with a grade of "C" or
better, or equivalent or Assessment Skill Levels
R5, W5 and M40.

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in
this trade. This course is not open to students
with previous credit for Pipefitting (County
Pipetrades) 302.

In this course, the student is introduced to arc
welding, intensive pipe and plate welding, safe
welding practices, personal protection and fire
protection. Basic electricity, the types of arc
welding machines, arc welding consumables, and
arc welding symbols are covered. This course is
designed to give the Apprentice student a basic
understanding of arc welding. (FT) Associate
Degree Credit only and not Transferable.

332 Arc Welding II

**24 - 27 hours lecture, 24 - 27 hours lab, 2 units
Grade Only**

Advisory: Pipefitting (County Pipetrades) 331
with a grade of "C" or better, or equivalent.

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in
this trade.

In this course, the student is introduced to the
safety procedures for arc welding, arc welding
equipment and equipment maintenance. Student
learns how to weld trail beads. Additional
instruction on basic electricity is covered. This
course is designed to build on the students' basic
understanding of arc welding. (FT) Associate
Degree Credit only and not Transferable.

Pipefitting (County Pipetrades)

333 Arc Welding III

**24 - 27 hours lecture, 24 - 27 hours lab, 2 units
Grade Only**

Advisory: Pipefitting (County Pipetrades) 332 with a grade of "C" or better, or equivalent.

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This is an advanced Arc Welding course. In this course, the student studies Federal OSHA rules and regulations that are related to arc welding. The student is introduced and begins to prepare for the SMAW/GTAW United Association Arc Welding certification test. (FT) Associate Degree Credit only and not Transferable.

334 Arc Welding IV

**24 - 27 hours lecture, 24 - 27 hours lab, 2 units
Grade Only**

Advisory: Pipefitting (County Pipetrades) 333 with a grade of "C" or better, or equivalent.

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This is an advanced Arc Welding course. In this course, the student is introduced to the fundamentals of metallurgy, mechanical properties of metals, non-ferrous metals, shielding gases, and heat-treating. Welding low, medium and high-carbon steel is also covered, as well as welding alloy steels, stainless steels and high-chromium alloys. In addition, this course covers the use of computer-assisted arc welding machines for the high-tech industry. (FT) Associate Degree Credit only and not Transferable.

335 Arc Welding V

**24 - 27 hours lecture, 24 - 27 hours lab, 2 units
Grade Only**

Advisory: Pipefitting (County Pipetrades) 334 with a grade of "C" or better, or equivalent.

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This is an Advanced Arc Welding course and is the last in a series of five welding courses required for Pipefitting Apprenticeship. In this course, students take the FED OSHA 10-hour course on confined space entry as related to arc welding and receive a certificate from FED OSHA. All procedures and techniques required for the SMAW/GTAW United Association welding certification are reviewed. The student takes the required arc-welding test at the end of this course for this Certification. (FT) Associate Degree Credit only and not Transferable.

349 Pipefitting Work Experience

**4 - hours other, 4 units
Pass/No Pass**

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. Student must be enrolled in a related apprenticeship class.

(300 hours per semester) The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units. See note preceding Apprenticeship listing. (FT) Associate Degree Credit only and not Transferable.

Plumbing (County Pipetrades)

ACTION

Adoption of 22 course deactivations at City College.

Proposed course deactivations at City College:

44 Supervised Tutoring in Plumbing

No Grade/0 Units

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. (FT) College noncredit course.

301 Pipe Trades Orientation

48 - 54 hours lecture, 3 units

Grade Only

Advisory: English 48, English 49 and Mathematics 46, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5, W5 and M40.

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course introduces the fundamentals of the pipe trades and includes OSHA regulations, tool safety, first-aid and prevention, proper use and care of tools, workplace habits and attitudes, business practices and employer-employee relationships as they apply to the pipefitting trades. (FT) Associate Degree Credit & transfer to CSU.

303 Piping Mathematics

48 - 54 hours lecture, 3 units

Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course introduces Piping Mathematics and its practical application to the trade. Topics include basic math, piping formulas, symbols and terms, and the metric system of measurement. Content is explored and developed through problem solving. (FT) Associate Degree Credit only and not Transferable.

305 Pipe Bending and Rigging

24 - 27 hours lecture, 24 - 27 hours lab, 2 units

Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course introduces pipe bending and rigging principles as they apply to plumbing jobs. Topics include principles, mathematics, and methods of pipe bending. Rigging hardware, slings, signal systems, and knot tying are a sampling of the course rigging topics. (FT) Associate Degree Credit & transfer to CSU.

Plumbing (County Pipetrades)

307 Drawing I

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

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course introduces drawing concepts used in the pipetrades and includes preliminary drawings, isometric and plan flat symbols, applied drawing and blueprint reading, plans used in the trade, and architects scale. (FT) Associate Degree Credit & transfer to CSU.

309 Supervision and Leadership

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

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

Students learn leadership skills as defined by the United Association (UA) and the Mechanical Contractors' Association (MCA) in the field of plumbing. In addition, students are introduced to the theory and installation of domestic hot water energy systems, and the design of plumbing modules including waste vents, water and gas lines using mock-ups. (FT) Associate Degree Credit & transfer to CSU.

311 Basic Science

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

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course reviews the fundamental science and mechanics of the piping trade. Topics include industry applications of the properties of water, hydraulics, pneumatics and metals. (FT) Associate Degree Credit only and not Transferable.

313 Copper and Gas Welding

**24 - 27 hours lecture, 72 - 81 hours lab, 3 units
Grade Only**

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course provides hands-on use of soldering, brazing, welding and metal cutting procedures. Topics include safety practices, equipment needs, filler materials, types of pipe welds, oxyacetylene cutting, cutting defects, flame straightening, and use of templates. (FT) Associate Degree Credit only and not Transferable.

315 Metallic Arc Welding

**24 - 27 hours lecture, 72 - 81 hours lab, 3 units
Grade Only**

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course provides instruction on arc welding, pipe and plate welding, and operation of oxyfuel cutting equipment. Students learn how to set up equipment, perform trial beads and maintain equipment. Topics also include types of welds, preheating and stress relieving and quality control and codes. This course also covers welding procedure qualifications, vee welds, pipe welds, piping materials, a basic electricity review, and pipe welding processes. Emphasis is on the safe use of equipment. (FT) Associate Degree Credit only and not Transferable.

Plumbing (County Pipetrades)

317 Drainage Systems

48 - 54 hours lecture, 3 units
Grade Only

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in this trade.

This course focuses on the application of the waste and vent section of the Plumbing Code. Topics include sewage disposal and safety and the installation and testing of plumbing drainage systems, traps, vents, municipal and private sewers, and plumbing fixtures. (FT) Associate Degree Credit & transfer to CSU.

319 Gas Distribution

48 - 54 hours lecture, 3 units
Grade Only

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in this trade.

This course focuses on the application of the gas section of the Plumbing Code with respect to the operation and installation of gas vent systems and controls. Emphasis is placed on the implications of the laws of gases and the safe design and layout of a gas system to code specification. (FT) Associate Degree Credit & transfer to CSU.

321 Math/Builder Level-Transit

48 - 54 hours lecture, 3 units
Grade Only

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in this trade.

This course focuses on advanced math applied to science and mechanics problems in the field. Topics include piping and offset calculations, basic flow problems and use of the builders level-transit to determine elevation differentials and simple tangents. (FT) Associate Degree Credit & transfer to CSU.

323 Water Distribution Systems

48 - 54 hours lecture, 3 units
Grade Only

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in this trade.

This course is a study of the principles which govern the method of water supply and distribution. Topics covered include water treatment, pipeline materials, pipe losses, cross connectors and backflow prevention. The focus is on the construction of a hot water supply in accordance with the Uniform Plumbing Code and sizing charts. Safety is emphasized. (FT) Associate Degree Credit & transfer to CSU.

325 Fixtures and Controls

48 - 54 hours lecture, 3 units
Grade Only

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in this trade.

This course emphasizes plumbing fixtures and controls. Topics covered include institutional fixtures and design, fixture controls, appliances, accessories, standard abbreviations and standard specifications. Safe use of tools and equipment is emphasized. (FT) Associate Degree Credit & transfer to CSU.

327 Plumbing Code

48 - 54 hours lecture, 3 units
Grade Only

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in this trade.

This course is a survey of the Plumbing Code emphasizing special areas requiring knowledge of large multiple installations of plumbing. Emphasis is placed on a working knowledge of applicable plumbing codes for layout and installation in the field. (FT) Associate Degree Credit & transfer to CSU.

Plumbing (County Pipetrades)

329 Advanced Drawing and Plan Reading

48 - 54 hours lecture, 3 units

Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course provides the student with advanced level plan reading and drawing skills related to plumbing systems. Emphasis is placed on the ability to independently develop drawings and sketches and accurately interpret building plans and specifications for all primary building systems. (FT) Associate Degree Credit & transfer to CSU.

330 Fifth Year Specialties

48 - 54 hours lecture, 3 units

Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course covers the application of the most current codes and state regulations governing plumbing, piping and excavating operations. Upon completion, the apprentice will be prepared to take the Journeyman P.I.P.E. exam and Cal/OSHA Excavation Competent Person exam. (FT) Associate Degree Credit only and not Transferable.

332 Piping Technologies

24 - 27 hours lecture, 24 - 27 hours lab, 2 units

Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This is a piping course designed for plumbing apprentices wishing to expand their knowledge of the plumbing industry and the "state of the art" medical gas systems used in the trade. Topics include the necessary information and skills needed to pass the Medical Gas Installation Certification Examination recognized by the San Diego Plumbing and Pipefitter Joint Apprenticeship Committee. Apprentices also utilize computers and software to plan, diagnose, and layout plumbing projects. (FT) Associate Degree Credit only and not Transferable.

335 Solar Systems and Plumbing Modules

48 - 54 hours lecture, 3 units

Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course provides an introduction to the theory and installation of domestic hot water energy systems. Emphasis is placed on solar plumbing modules. (FT) Associate Degree Credit & transfer to CSU.

337 Service and Repair

48 - 54 hours lecture, 3 units

Grade Only

Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.

This course introduces the theory and practice of service work in the plumbing industry. Emphasis is placed on understanding customer relations, work planning, and troubleshooting plumbing systems. (FT) Associate Degree Credit & transfer to CSU.

Plumbing (County Pipetrades)

339 Plumbing Design and Layout

48 - 54 hours lecture, 3 units

Grade Only

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in
this trade.

This course emphasizes the principles, operation,
installation and distribution of hot and cold water,
drainage and ventilation systems in regards to the
Plumbing Code. Topics prepare the student to
plan for plumbing project labor and material
costs. (FT) Associate Degree Credit & transfer to
CSU.

349 Plumbing Work Experience

4 - hours other, 4 units

Pass/No Pass

Limitation on Enrollment: Apprenticeship -
Student must be a state registered apprentice in
this trade. Student must be enrolled in a related
apprenticeship class.

(300 hours per semester) The combined maximum
credit for all work experience courses from all
disciplines may not exceed 16 units. (FT)
Associate Degree Credit only and not
Transferable.

Radiologic Technology

ACTION

Adoption of four new courses at Mesa College.

Proposed new courses at Mesa College:

50 Concepts in Imaging Technology
32 - 36 hours lecture, 2 units
Grade Only

Limitation on Enrollment: Special Admission - must be admitted to program. Must be admitted to the Radiologic Technology program.

This is an introductory course for students admitted into the Radiologic Technology. Topics include the diagnostic x-ray system, radiographic body positions and projections, x-ray production and units, radiation safety, basic exposure and image receptor techniques, introductory patient care, safety and healthcare communication. Emphasis is on strong mathematical, scientific and communication skills. (FT) Associate Degree Credit only and not Transferable.

190L Radiographic Positioning-I Laboratory
48 - 54 hours lab, 1 units
Grade Only

Corequisite: Completion of or concurrent enrollment in Radiologic Technology 190 and Radiologic Technology 251A, each with a grade of "C" or better, or equivalent.

Limitation on Enrollment: Special Admission - must be admitted to program. This course is not open to students with previous credit for Radiologic Technology 199.

This is an introductory laboratory for students in the Radiologic Technology program. Topics include radiographic positioning and image critique of the chest, abdomen, pelvis and extremities. (FT) Associate Degree Credit & transfer to CSU.

201L Radiographic Positioning II Laboratory
48 - 54 hours lab, 1 units
Grade Only

Corequisite: Completion of or concurrent enrollment in Radiologic Technology 201 and Radiologic Technology 251B, each with a grade of "C" or better, or equivalent.

Limitation on Enrollment: Special Admission - must be admitted to program. Student must be admitted to the Radiologic Technology program. This course is not open to students with previous credit for Radiologic Technology 200.

This is an intermediate laboratory course for students in the Radiologic Technology program. Course topics include radiographic positioning and image critique of the vertebral column, as well as shoulder girdle, bony thorax and some advanced and/or uncommon orthopedic views of extremities and pelvis. (FT) Associate Degree Credit & transfer to CSU.

210L Radiographic Positioning III

48 - 54 hours lab, 1 units

Grade Only

Corequisite: Completion of or concurrent enrollment in: Radiologic Technology 210 and Radiologic Technology 252B, each with a grade of "C" or better, or equivalent.

Limitation on Enrollment: Special Admission - must be admitted to program. This course is not open to students with previous credit for Radiologic Technology 211.

This is an advanced course for students in the Radiologic Technology program. Course topics include laboratory radiographic simulation and image critique of cranial structures and contrast media examinations of the gastrointestinal, urinary, musculoskeletal, reproductive, vascular and central nervous systems. Mobile and trauma procedures are also discussed. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a program revision at Miramar College.

Proposed program revisions at Miramar College:

**Certificate of Achievement
Law Enforcement Specialization**

Courses Required for the Major:	Units
ADJU 101 Introduction to Administration of Justice	3
ADJU 102 Criminal Law I	3
ADJU 106 Diversity and Community Relations	3
ADJU 160 Criminal Law II	3
ADJU 161 Juvenile Procedures	3
ADJU 167 Report Writing	3
ADJU 201 California Criminal Procedure	3
ADJU 210 Rules of Evidence	3

<u>ADJU 357A 832 PC Laws of Arrest</u>	<u>1</u>
<u>ADJU 357B 832 PC Firearms</u>	<u>.0.5</u>

Total Units = 33

Select nine units from the following:	Units
<u>ADJU 127A Physical Conditioning I</u>	<u>1</u>
<u>ADJU 127B Physical Conditioning II</u>	<u>1</u>
<u>ADJU 127C Physical Conditioning III</u>	<u>1</u>
<u>ADJU 127D Physical Conditioning IV</u>	<u>1</u>
<u>ADJU 128A Defensive Tactics I</u>	<u>1</u>
<u>ADJU 128B Defensive Tactics II</u>	<u>1</u>
<u>ADJU 128C Defensive Tactics III</u>	<u>1</u>
<u>ADJU 128D Defensive Tactics IV</u>	<u>1</u>
<u>ADJU 129A Firearms I</u>	<u>1</u>
<u>ADJU 129B Firearms II</u>	<u>1</u>
<u>ADJU 129C Firearms III</u>	<u>1</u>
<u>ADJU 129D Firearms IV</u>	<u>1</u>
ADJU 140 Patrol Procedures or	3
ADJU 147 Physical Conditioning or	
ADJU 148 Defensive Tactics or	
ADJU 149 Firearms or	
ADJU 162 Criminal Investigation	3
ADJU 180 Drug Abuse and Law Enforcement ..	3
ADJU 181 Vice and Organized Crime	3
ADJU 182 Street Gangs and Law Enforcement .	3
ADJU 220 Law Enforcement Forensics	3
ADJU 230 Constitutional Law I	3
ADJU 356A 832 PC Laws of Arrest or	
ADJU 356B 832 PC Firearms	1 2.5

**Associate in Science Degree
Law Enforcement Specialization**

Courses Required for the Major:	Units
ADJU 101 Introduction to Administration of Justice	3
ADJU 102 Criminal Law I	3
ADJU 106 Diversity and Community Relations	3
ADJU 160 Criminal Law II	3
ADJU 161 Juvenile Procedures	3
ADJU 167 Report Writing	3
ADJU 201 California Criminal Procedure	3
ADJU 210 Rules of Evidence.....	3

Select nine units from the following:	Units
<u>ADJU 127A Physical Conditioning I</u>	<u>1</u>
<u>ADJU 127B Physical Conditioning II</u>	<u>1</u>
<u>ADJU 127C Physical Conditioning III.....</u>	<u>1</u>
<u>ADJU 127D Physical Conditioning IV</u>	<u>1</u>
<u>ADJU 128A Defensive Tactics I.....</u>	<u>1</u>
<u>ADJU 128B Defensive Tactics II.....</u>	<u>1</u>
<u>ADJU 128C Defensive Tactics III.....</u>	<u>1</u>
<u>ADJU 128D Defensive Tactics IV</u>	<u>1</u>
<u>ADJU 129A Firearms I</u>	<u>1</u>
<u>ADJU 129B Firearms II</u>	<u>1</u>
<u>ADJU 129C Firearms III.....</u>	<u>1</u>
<u>ADJU 129D Firearms IV.....</u>	<u>1</u>
ADJU 140 Patrol Procedures or	3
ADJU 147 Physical Conditioning or	
ADJU 148 Defensive Tactics or	
ADJU 149 Firearms or	
ADJU 162 Criminal Investigation.....	3
ADJU 180 Drug Abuse and Law Enforcement ..	3
ADJU 181 Vice and Organized Crime	3
ADJU 182 Street Gangs and Law Enforcement .	3
ADJU 220 Law Enforcement Forensics	3
ADJU 230 Constitutional Law I.....	3
ADJU 356A 832 PC Laws of Arrest or	
ADJU 356B 832 PC Firearms	1 2.5
<u>ADJU 357A 832 PC Laws of Arrest</u>	<u>1</u>
<u>ADJU 357B 832 PC Firearms</u>	<u>0.5</u>

Total Units = 33

**Certificate of Performance
P.C. 832 Laws of Arrest**

Courses Required for the Major:	Units
<u>ADJU 356A 832 PC Laws of Arrest</u>	<u>2.5</u>
<u>ADJU 357A 832 PC Laws of Arrest</u>	<u>1</u>

Total Units = ~~2.5~~ 1

**Certificate of Performance
P.C. 832 Laws of Arrest-Firearms**

Courses Required for the Major:	Units
<u>ADJU 356B 832 PC Firearms</u>	<u>1</u>
<u>ADJU 357B 832 PC Firearms</u>	<u>0.5</u>

Total Units = ~~1~~ 0.5

ACTION

Adoption of a program revision at City College.

Proposed program revision at City College:

**Associate ~~in~~ of Science Degree
Sustainable Urban Agriculture**

Courses Required for the Major:	Units
AGRI 100 Principles of Sustainable Agriculture	3
AGRI 102 Sustainable Urban Agricultural Practice	3
AGRI 104 Seasonal Organic Production	3
AGRI 106 Warm Season Organic Production	3
AGRI 108 Building Fertile Soil Organically	3
BIOL 107 General Biology-Lecture and Laboratory	4
CHEM 100 Fundamentals of Chemistry	3
CHEM 100L Fundamentals of Chemistry Laboratory	1
SUST 101 Introduction to Sustainability	3

Total Units = ~~26~~ 23

Apprenticeship

ACTION

Adoption of a program revision at City College.

Proposed program revisions at City College:

**Certificate of Achievement
Solar Turbines, Incorporated
Apprenticeship**

Courses Required for the Major:	Units
MFET 105 Print Reading and Symbology	3
<u>ENGN 110 Science for Technical Applications</u>	4
<u>CHEM 100 Fundamentals of Chemistry</u>	3
<u>CHEM 100L Fundamentals of Chemistry</u> <u>Laboratory</u>	1
MATH 104 Trigonometry	3
MACT 150 Intro/Computer Num Control (CNC) and Elec Dis Mach	4
ENGL 101 Reading and Composition.....	3
ENGE 151 Engineering Drawing	2
MFET 115 Properties of Materials	3
MFET 120 Manufacturing Processes	4
COMS 103 Oral Communication	3

Total Units = 29

**Associate in Science Degree
Solar Turbines, Incorporated
Apprenticeship**

Courses Required for the Major:	Units
MFET 105 Print Reading and Symbology	3
<u>ENGN 110 Science for Technical Applications</u>	4
<u>CHEM 100 Fundamentals of Chemistry</u>	3
<u>CHEM 100L Fundamentals of Chemistry</u> <u>Laboratory</u>	1
MATH 104 Trigonometry	3
MACT 150 Intro/Computer Num Control (CNC) and Elec Dis Mach.....	4
ENGL 101 Reading and Composition.....	3
ENGE 151 Engineering Drawing	2
MFET 115 Properties of Materials	3
MFET 120 Manufacturing Processes	4
COMS 103 Oral Communication	3

Total Units = 29

Apprenticeship

ACTION

Adoption of a program deactivation at City College.

Proposed program deactivations at City College:

**Certificate of Achievement
Pipefitting (County Pipetrades)
Apprenticeship**

Courses Required for the Major:	Units
PMBG 301 Pipe Trades Orientation.....	3
PMBG 303 Piping Mathematics.....	3
PMBG 305 Pipe Bending and Rigging.....	3
PMBG 307 Drawing I.....	3
PMBG 311 Basic Science.....	3
PIPF 331 Arc Welding I.....	1.5

Select two to three units from the following:	Units
PIPF 328 Pipefitters Code or	
PIPF 330 Pipefitting Certification or	
PIPF 334 Arc Welding IV or	
PIPF 335 Arc Welding V.....	2-3

Work experience (on the job training for the duration of the apprenticeship period) (4 units/semester, maximum of 16 units); including the following course(s):	Units
PIPF 349 Pipefitting Work Experience or	
PMBG 349 Plumbing Work Experience.....	4

Total Units = 21.5-34.5

**Associate in Science Degree
Pipefitting (County Pipetrades)
Apprenticeship**

Courses Required for the Major:	Units
PMBG 301 Pipe Trades Orientation.....	3
PMBG 303 Piping Mathematics.....	3
PMBG 305 Pipe Bending and Rigging.....	3
PMBG 307 Drawing I.....	3
PMBG 311 Basic Science.....	3
PIPF 331 Arc Welding I.....	1.5

Select two to three units from the following:	Units
PIPF 328 Pipefitters Code or	
PIPF 330 Pipefitting Certification or	
PIPF 334 Arc Welding IV or	
PIPF 335 Arc Welding V.....	2-3

Work experience (on the job training for the duration of the apprenticeship period) (4 units/semester, maximum of 16 units); including the following course(s):	Units
PIPF 349 Pipefitting Work Experience or	
PMBG 349 Plumbing Work Experience.....	4

Total Units = 21.5-34.5

**Certificate of Achievement
Plumbing (County Pipetrades)
Apprenticeship**

Courses Required for the Major:	Units
PMBG 301 Pipe Trades Orientation.....	3
PMBG 303 Piping Mathematics.....	3
PMBG 305 Pipe Bending and Rigging.....	2
PMBG 307 Drawing I.....	3
PMBG 311 Basic Science.....	3
PIPF 331 Arc Welding I.....	1.5

Select two to three units from the following:

	Units
PMBG 327 Plumbing Code or	
PMBG 330 Fifth Year Specialties or	
PMBG 332 Piping Technologies.....	2-3

Work experience (on the job training for the duration of the apprenticeship period) (4 units/semester, maximum of 16 units); including the following course(s):

	Units
PMBG 349 Plumbing Work Experience or	
PIPF 349 Pipefitting Work Experience.....	4

Total Units = 21.5-34.5

**Associate in Science Degree
Plumbing (County Pipetrades)
Apprenticeship**

Courses Required for the Major:	Units
PMBG 301 Pipe Trades Orientation.....	3
PMBG 303 Piping Mathematics.....	3
PMBG 305 Pipe Bending and Rigging.....	2
PMBG 307 Drawing I.....	3
PMBG 311 Basic Science.....	3
PIPF 331 Arc Welding I.....	1.5

Select two to three units from the following:

	Units
PMBG 327 Plumbing Code or	
PMBG 330 Fifth Year Specialties or	
PMBG 332 Piping Technologies.....	2-3

Work experience (on the job training for the duration of the apprenticeship period) (4 units/semester, maximum of 16 units); including the following course(s):

	Units
PMBG 349 Plumbing Work Experience or	
PIPF 349 Pipefitting Work Experience.....	4

Total Units = 21.5-34.5

ACTION

Adoption of a new program at Miramar College.

Proposed new program at Miramar College:

**Certificate of Performance
Advanced Emission Specialist**

Courses Required for the Major:	Units
AUTO 086 BAR Specified Diagnostic, Repair, and Level 2 Inspection Training	4
AUTO 270 Work Experience	1-4

Total Units = 5-8

ACTION

Adoption of a program revision at Miramar College.

Proposed program revision at Miramar College:

**Associate ~~in~~ of Science Degree
Automotive Technology**

Courses Required for the Major:	Units
AUTO 056 Engine and Related Systems or	
AUTO 056T Honda/Toyota Engine and Related Systems	4
AUTO 061 Basic Electricity and Electrical Systems Fundamentals or	
AUTO 061T Honda/Toyota Basic Electricity and Electrical Systems Fundamentals.....	4
AUTO 062 Advanced Electrical or	
AUTO 062T Honda/Toyota Advanced Electrical	4
AUTO 065 Engine Performance or	
AUTO 065T Honda/Toyota Engine Performance	4
AUTO 067 Advanced Engine Performance or	
AUTO 067T Honda/Toyota Advanced Engine Performance	4
AUTO 069 Climate Control Systems or	
AUTO 069T Honda/Toyota Climate Control Systems	4
AUTO 072 Manual Drive Train and Axles or	
AUTO 072T Honda/Toyota Manual Drive Train and Axles	4
AUTO 074 Automatic Transmissions/Axles or	
AUTO 074T Honda/Toyota Automatic Transmissions/Axles	4
AUTO 076 Automotive Brake Systems or	
AUTO 076T Honda/Toyota Automotive Brake Systems	4
AUTO 078 Suspension, Steering and Handling or	
AUTO 078T Honda/Toyota Suspension, Steering and Handling	4
AUTO 085 Advanced Emission Specialist Exam Qualification Course	6

Total Units = 46 40

ACTION

Adoption of a program revision at City College.

Proposed program revisions at City College:

**Certificate of Achievement
Alcohol and Other Drug Studies**

**Associate in Science Degree
Alcohol and Other Drug Studies**

The AODS department recommends students take courses in the order listed below:

The AODS department recommends students take courses in the order listed below:

Courses Required for the Major:	Units
AODS 150 Introduction to Chemical Dependency	3
<u>AODS 152 Physiology and Pharmacology of Psychoactive Drug Use</u>	<u>3</u>
<u>AODS 153 Chemical Dependency Family Counseling Techniques</u>	<u>3</u>
AODS 154 Law, Ethics and Skills in Substance Abuse Counseling	3
SOCO 101 Principles of Sociology	3
AODS 156 Chemical Dependency Case Management.....	3
<u>AODS 157 Pharmacology of Psychoactive Drugs.....</u>	<u>3</u>
<u>AODS 158 Chemical Dependency Family Counseling Techniques.....</u>	<u>3</u>
PSYC 101 General Psychology	3
AODS 160 Group Dynamics in Chemical Dependency Counseling	3
PSYC 161 Introduction to Counseling	3
PSYC 245 Abnormal Psychology	3
AODS 162 Chemical Dependency Internship Seminar	3
AODS 163 Chemical Dependency Internship or AODS 270 ¹ Work Experience in Chemical Dependency	3.5-4

Courses Required for the Major:	Units
AODS 150 Introduction to Chemical Dependency	3
<u>AODS 152 Physiology and Pharmacology of Psychoactive Drug Use</u>	<u>3</u>
<u>AODS 153 Chemical Dependency Family Counseling Techniques.....</u>	<u>3</u>
AODS 154 Law, Ethics and Skills in Substance Abuse Counseling	3
SOCO 101 Principles of Sociology	3
AODS 156 Chemical Dependency Case Management	3
<u>AODS 157 Pharmacology of Psychoactive Drugs</u>	<u>3</u>
<u>AODS 158 Chemical Dependency Family Counseling Techniques.....</u>	<u>3</u>
PSYC 101 General Psychology	3
AODS 160 Group Dynamics in Chemical Dependency Counseling	3
PSYC 161 Introduction to Counseling	3
<u>PSYC 245 Abnormal Psychology</u>	<u>3</u>
AODS 162 Chemical Dependency Internship Seminar	3
AODS 163 Chemical Dependency Internship or AODS 270 ¹ Work Experience in Chemical Dependency	3.5-4

¹Alcohol and Other Drug Studies AODS 270 must be substituted for AODS 163 if student has paid internship.

¹AODS 270 must be substituted for AODS 163 if student has a paid internship.

Total Units = ~~34-37~~ 36.5-37

Total Units = ~~33.5~~ 36.5-37

Biology

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

Certificate of Achievement Biotechnology Program

- A. Labor Market Information¹: The annual average number of persons employed in the Biotechnology program area was 2360 in San Diego County in the 2010 Employment year. Approximately 54 new job openings are projected annually through 2020.
- B. Duplication²: Mira Costa College; Southwestern College.
- C. Effectiveness³: Projected enrollment of 20 students for the 2013-2014 year in the New Program Area.

- 1. http://www.labormarketinfo.edd.ca.gov/LMID/Projections_of_Employment_by_Industry_and_Occupation.html
- 2. CCCCO Curriculum Inventory
http://www.labormarketinfo.edd.ca.gov/LMID/Projections_of_Employment_by_Industry_and_Occupation.html
- 3. ISIS

ACTION

Adoption of a new program at Miramar College.

Proposed new program at Miramar College:

**Certificate of Achievement
Biotechnology**

Courses Required for the Major:	Units
BIOL 131 Introduction to Biotechnology.....	4
BIOL 132 Applied Biotechnology I.....	4
BIOL 133 Applied Biotechnology II.....	4

Total Units = 12

ACTION

Adoption of a new program at City College.

Proposed new programs at City College:

**Certificate of Performance
Bookkeeping for a Small Business**

Courses Required for the Major:	Units
ACCT 102 Basic Accounting	3
ACCT 150 Computer Accounting Applications	3

Total Units = 6

**Certificate of Performance
Income Tax Preparation Internship**

Courses Required for the Major:	Units
BUSE 245C Small Business Internship – Accounting or	
BUSE 277C Service Learning – Community	3

Total Units = 3

**Certificate of Performance
Writing and Computational Skills**

Courses Required for the Major:	Units
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications.....	3

Total Units = 6

ACTION

Adoption of a program revision at City College.

Proposed program revisions at City College:

**Certificate of Performance
Business Communications and
Cultural Competence**

Courses Required for the Major:	Units
BUSE 119 Business Communications	3
BUSE 150 Human Relations in Business	3
COMS 103 Oral Communication	3
COMS 180 Intercultural Communication	3

Total Units = ~~12~~ 6

**Certificate of Performance
Business Presentations**

Courses Required for the Major:	Units
BUSE 119 Business Communications	3
CBTE 180 Microsoft Office	3
COMS 103 Oral Communication or	
<u>COMS 170 Small Group Communication</u>	3

Total Units = ~~9~~ 6

**Certificate of Performance
~~Students In Free Enterprise (SIFE)~~
enactus**

Courses Required for the Major:	Units
Select two from the following:	
BUSE 158A Students in Free Enterprise <u>enactus - High School Projects</u> or	3 3
BUSE 277A Service Learning – High School Projects or	
BUSE 158B Students in Free Enterprise <u>enactus - Elementary and Middle School</u> <u>Projects</u> or	3 3
BUSE 277B Service Learning – Elementary and Junior High School Projects or	
BUSE 158C Students in Free Enterprise <u>enactus - Community Projects</u> or	3 3
BUSE 277C Service Learning – Community or	
BUSE 158D Students in Free Enterprise <u>enactus - On-Campus Educational</u> <u>Projects</u> or	3 3
BUSE 277D Service Learning – on Campus ..	1 3

Total Units = ~~6-12~~ 6

**Certificate of Performance
~~Small Business Bookkeeper~~
Recordkeeping for a Small Business**

Courses Required for the Major:	Units
ACCT 102 Basic Accounting	3 3
ACCT 128A Small Business Accounting – Recordkeeping	1.5
ACCT 128B Small Business Accounting – Payroll.....	1.5
ACCT 150 Computer Accounting <u>Applications</u>	3 3

Total Units = ~~9~~ 3

Certificate of Performance
Starting a Business
Starting and Managing a Small
Business

Courses Required for the Major:	Units
ACCT 128A Small Business Accounting—	
Recordkeeping	1.5
ACCT 128B Small Business Accounting—	
Payroll.....	1.5
BUSE 119 Business Communications.....	3
BUSE 155 Managing the Small Business	3
BUSE 157 Starting a Small Business	3
MARK 100 Principles of Marketing	3

Total Units = 12 2

Certificate of Performance
Tax Preparer

Courses Required for the Major:	Units
ACCT 102 Basic Accounting	3
ACCT 120 Federal Income Tax	3
ACCT 121 California Income Tax	1

Complete 3 units from:	Units
BUSE 245C Small Business Internship—	
Accounting or	
BUSE 277C Service Learning—Community..	1 3

Total Units = 10 4

ACTION

Adoption of a program revision at Miramar College.

Proposed program revision at Miramar College:

**Certificate of Performance
Computer Programming**

Courses Required for the Major:	Units
CISC 186 Visual Basic Programming	4
CISC 190 Java Programming	4
CISC 192 C/C++ Programming	4
CISC 210 System Analysis and Design.....	3

Total Units = ~~15~~ 12

ACTION

Adoption of a program revision at City College.

Proposed program revisions at City College:

**Certificate of Achievement
Administrative Assistant**

Courses Required for the Major:	Units
CBTE 094 <u>Introduction to Computer Keyboarding</u>	
<u>or</u>	
CBTE 095 Keyboarding Skill Development or	. 1
CBTE 101 Basic Computer Keyboarding	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 152 Beginning Microsoft Access	2
<u>CBTE 162 Web Page Creation.....</u>	<u>2</u>
CBTE 170 Desktop Publishing	2
CBTE 205 Records Management	3
CBTE 210 Computers in Business or	
CBTE 211 Office Administration.....	3
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications.....	3

Total Units = 27

**Associate ~~in~~ of Science Degree
Administrative Assistant**

Courses Required for the Major:	Units
CBTE 094 <u>Introduction to Computer Keyboarding</u>	
<u>or</u>	
CBTE 095 Keyboarding Skill Development or	. 1
CBTE 101 Basic Computer Keyboarding	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 152 Beginning Microsoft Access	2
<u>CBTE 162 Web Page Creation.....</u>	<u>2</u>
CBTE 164 Introduction to Microsoft Outlook ...	1
CBTE 170 Desktop Publishing	2
CBTE 200 Office Telecommunications	2
CBTE 205 Records Management	3
CBTE 210 Computers in Business or	
CBTE 211 Office Administration.....	3
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications	3

Total Units = ~~30~~ 28

**Certificate of Achievement
Administrative Office Management**

Courses Required for the Major:	Units
<u>CBTE 094 Introduction to Computer Keyboarding</u>	
or	
CBTE 095 Keyboarding Skill Development or .1	
CBTE 101 Basic Computer Keyboarding 1	
CBTE 114 Introduction to Microsoft Windows .1	
CBTE 161 Learning the Internet 1	
CBTE 164 Introduction to Microsoft Outlook ...1	
CBTE 180 Microsoft Office	3
CBTE 205 Records Management	3
CBTE 210 Computers in Business or	
CBTE 211 Office Administration.....	3
ACCT 150 Computer Accounting Applications	3
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications.....	3
BUSE 150 Human Relations in Business.....	3
BUSE 155 Managing the Small Business	3

Total Units = ~~28~~ 27

**Associate in Science Degree
Administrative Office Management**

Courses Required for the Major:	Units
<u>CBTE 094 Introduction to Computer Keyboarding</u>	
or	
CBTE 095 Keyboarding Skill Development	1
CBTE 101 Basic Computer Keyboarding 1	
CBTE 114 Introduction to Microsoft Windows .1	
CBTE 164 Introduction to Microsoft Outlook ...1	
CBTE 180 Microsoft Office	3
CBTE 200 Office Telecommunications 2	
CBTE 205 Records Management.....	3
CBTE 210 Computers in Business or	
CBTE 211 Office Administration.....	3
ACCT 150 Computer Accounting Applications	3
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications	3
BUSE 150 Human Relations in Business.....	3
BUSE 155 Managing the Small Business	3

Total Units = ~~30~~ 27

**Certificate of Performance
Computer Literacy**

Courses Required for the Major:	Units
<u>CBTE 052 Basic Computer Skills</u>	<u>2</u>
<u>CBTE 094 Introduction to Computer Keyboarding</u>	
or	
CBTE 051 Basic Computer Skills and	
CBTE 095 Keyboarding Skill Development or . 1	
CBTE 101 Basic Computer Keyboarding	1
CBTE 114 Introduction to Microsoft Windows . 1	
CBTE 161 Learning the Internet	1
CBTE 180 Microsoft Office	3

Total Units = ~~6-7~~ 7

**Certificate of Achievement
Legal Administrative Assistant**

Courses Required for the Major:	Units
<u>CBTE 094 Introduction to Computer Keyboarding</u>	
or	
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill 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
LEGL 100A Introduction to Paralegalism..... 1	
LEGL 100B Legal Procedures	2
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications..... 3	
BUSE 140 Business Law and the Legal Environment.....	3
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
<u>CBTE 094 Introduction to Computer Keyboarding</u>	
or	
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill 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	
LEGL 100A Introduction to Paralegalism..... 1	
LEGL 100B Legal Procedures	2
BUSE 101 Business Mathematics	3
BUSE 119 Business Communications	3
BUSE 140 Business Law and the Legal Environment	3
CBTE 210 Computers in Business or	
CBTE 211 Office Administration.....	3

Total Units = ~~32~~ 30

**Certificate of Performance
Office Support Basics**

Courses Required for the Major:	Units
<u>CBTE 094 Introduction to Computer Keyboarding</u>	
or	
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill Development 1	
CBTE 114 Introduction to Microsoft Windows . 1	
CBTE 120 Beginning Microsoft Word	2
CBTE 127 Introduction to PowerPoint	2
CBTE 140 Microsoft Excel	2
CBTE 152 Beginning Microsoft Access	2
CBTE 164 Introduction to Microsoft Outlook ... 1	

Total Units = 11

**Certificate of Performance
Records Management Basics**

Courses Required for the Major:	Units
<u>CBTE 094 Introduction to Computer Keyboarding</u>	
or	
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill Development	1
CBTE 114 Introduction to Microsoft Windows .	1
CBTE 120 Beginning Microsoft Word.....	2
CBTE 140 Microsoft Excel	2
CBTE 152 Beginning Microsoft Access	2
CBTE 205 Records Management	3

Total Units = 11

**Certificate of Performance
Soft Skills Basics**

Courses Required for the Major:	Units
<u>CBTE 094 Introduction to Computer Keyboarding</u>	
or	
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill Development	1
CBTE 114 Introduction to Microsoft Windows .	1
CBTE 164 Introduction to Microsoft Outlook ...	1
CBTE 205 Records Management	3
CBTE 210 Computers in Business or	
CBTE 211 Office Administration.....	3
BUSE 119 Business Communications.....	3

Total Units = 12

ACTION

Adoption of a program deactivation at City College.

Proposed program deactivations at City College:

**Certificate of Performance
Business Presentations**

Courses Required for the Major:	Units
BUSE 119 Business Communications.....	3
CBTE 095 Keyboarding Skill Development or	
CBTE 101 Basic Computer Keyboarding	1
CBTE 120 Beginning Microsoft Word.....	2
CBTE 127 Introduction to PowerPoint.....	2
CBTE 200 Office Telecommunications	2

Total Units = 10

**Certificate of Performance
Data Management Basics**

Courses Required for the Major:	Units
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill Development	1
CBTE 114 Introduction to Microsoft Windows .1	
CBTE 140 Microsoft Excel	2
CBTE 152 Beginning Microsoft Access	2
CBTE 200 Office Telecommunications	2

Total Units = 8

**Certificate of Performance
Desktop Publishing Basics**

Courses Required for the Major:	Units
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill Development	1
CBTE 114 Introduction to Microsoft Windows .1	
CBTE 120 Beginning Microsoft Word.....	2
CBTE 122 Intermediate Microsoft Word.....	2
CBTE 170 Desktop Publishing.....	2

Total Units = 9

**Certificate of Performance
Office Communications**

Courses Required for the Major:	Units
BUSE 119 Business Communications	3
CBTE 095 Keyboarding Skill Development or	
CBTE 101 Basic Computer Keyboarding	1
CBTE 120 Beginning Microsoft Word	2
CBTE 161 Learning the Internet	1
CBTE 164 Introduction to Microsoft Outlook ...1	
CBTE 200 Office Telecommunications	2
CBTE 210 Computers in Business or	
CBTE 211 Office Administration.....	3

Total Units = 13

**Certificate of Performance
Office Software Basics**

Courses Required for the Major:	Units
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill Development	1
CBTE 114 Introduction to Microsoft Windows .1	
CBTE 180 Microsoft Office.....	3

Total Units = 5

**Certificate of Performance
Presentation Basics**

Courses Required for the Major:	Units
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill Development	1
CBTE 114 Introduction to Microsoft Windows .1	
CBTE 120 Beginning Microsoft Word	2
CBTE 127 Introduction to PowerPoint	2

Total Units = 6

**Certificate of Performance
Web Design Basics**

Courses Required for the Major:	Units
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill Development	1
CBTE 114 Introduction to Microsoft Windows .1	
CBTE 161 Learning the Internet	1
CBTE 165 Webpage Creation with Dreamweaver	3
CBTE 167 Webpage Creation Using Microsoft Expression Web or	
CBTE 162 Web Page Creation	2-3

Total Units = 8-9

**Certificate of Performance
Word Processing Basics**

Courses Required for the Major:	Units
CBTE 101 Basic Computer Keyboarding or	
CBTE 095 Keyboarding Skill Development	1
CBTE 114 Introduction to Microsoft Windows .1	
CBTE 120 Beginning Microsoft Word	2
CBTE 122 Intermediate Microsoft Word	3

Total Units = 7

ACTION

Adoption of a new program at City College.

Proposed new programs at City College:

**Certificate of Performance
Intermediate C++**

Courses Required for the Major:	Units
CISC 194 Advanced C++ Programming	4
CISC 205 Object Oriented Programming using C++	4

Total Units = 8

**Certificate of Performance
Introduction to C++**

Courses Required for the Major:	Units
CISC 187 Data Structures and Object-Oriented	4
CISC 192 C/C++ Programming	4

Total Units = 8

**Certificate of Performance
Project Management for
Information Technology**

Courses Required for the Major:	Units
CBTE 154 Microsoft Project.....	2
INWT 105 Project +	4

Total Units = 6

ACTION

Adoption of a program deactivation at City College.

Proposed program deactivations at City College:

**Certificate of Performance
Certified Convergent Network
Technologist**

Courses Required for the Major:	Units
INWT 090A Convergent Network Technology: Basic Data Communications	2
INWT 090B Convergent Network Technology: Basic Telecommunications	1.5
INWT 090C Convergent Network Technology: Broadband Technologies	2
INWT 090D Convergent Network Technology: Computer Telephony Integration	1
INWT 090E Convergent Network Technology: Local Area Networks (LANs)	2
INWT 090F Convergent Network Technology: Voice Over IP (VoIP) Essentials	1

Total Units = 9.5

**Certificate of Achievement
Computer Information Systems**

Courses Required for the Major:	Units
ACCT 116A Financial Accounting	4
ACCT 116B Managerial Accounting	4
BUSE 119 Business Communications	3
BUSE 140 Business Law and the Legal Environment	3
CISC 181 Principles of Information Systems	4
CISC 186 Visual Basic Programming	4
ECON 120 Principles of Macroeconomics	3
MATH 119 Elementary Statistics	3

CISC Elective(s)*

**Choose a minimum of 3 units in CISC. Students should consult with their counselor prior to choosing electives to ensure electives meet program and/or transfer goals.*

Total Units = 31

**Associate in Science Degree
Computer Information Systems**

Courses Required for the Major:	Units
ACCT 116A Financial Accounting	4
ACCT 116B Managerial Accounting	4
BUSE 119 Business Communications	3
BUSE 140 Business Law and the Legal Environment.....	3
CISC 181 Principles of Information Systems	4
CISC 186 Visual Basic Programming	4
ECON 120 Principles of Macroeconomics	3
MATH 119 Elementary Statistics.....	3

CISC Elective(s)*..... Units
 *Choose a minimum of 3 units in CISC. Students should consult with their counselor prior to choosing electives to ensure electives meet program and/or transfer goals. Note: Only one Computer and Information Sciences (CISC) course from the above list may be used to satisfy SDCCD general education requirements.

Total Units = 28

**Certificate of Performance
Computer Programming**

Courses Required for the Major:	Units
CISC 186 Visual Basic Programming	4
CISC 190 Java Programming	4
CISC 192 C/C++ Programming	4
CISC 210 System Analysis and Design.....	3

Total Units = 15

**Certificate of Performance
Internet Fluency**

Courses Required for the Major:	Units
CBTE 161 Learning the Internet	1
CBTE 162 Web Page Creation.....	2
CISC 114 Introduction to Computer Graphics and Web Media.....	2

Total Units = 5

**Certificate of Performance
Network Technician**

Courses Required for the Major:	Units
INWT 100 Survey of Operating Systems.....	4
INWT 110 Desktop Support Technician I.....	3
INWT 120 Network + Training.....	4
INWT 140 Security + Certification Training	3

Total Units = 14

ACTION

Adoption of a program revision at Mesa College.

Proposed program revisions at Mesa College:

**Certificate of Performance
Creative Writing**

Courses Required for the Major:

Select two courses from:	Units
ENGL 245A Writing Creative Nonfiction	3
ENGL 247 Writing Seminar - Poetry or	
ENGL 252A Fundamentals of Fiction Writing ..3	
ENGL 252B Intermediate Fiction Writing	3
ENGL 249 Introduction to Creative Writing3	

ENGL 247 Writing Seminar - Poetry	3
<u>ENGL 247B</u> <u>Advanced Writing Seminar –</u>	
<u>Poetry.....</u>	<u>3</u>
ENGL 249 Introduction to Creative Writing3	
<u>ENGL 249B Introduction to Creative Writing II</u> 3	

Total Units = 15

Select two courses from:	Units
BLAS 155 African American Literature	3
CHIC 135 Chicana/o Literature.....	3
ENGL 208 Introduction to Literature	3
ENGL 210 American Literature I.....	3
ENGL 211 American Literature II	3
ENGL 215 English Literature I: 800-1799.....	3
ENGL 216 English Literature II: 1800 – Present.....	3
ENGL 220 Masterpieces of World Literature I: 1500 BCE - 1600 CE	3
ENGL 221 Masterpieces of World Literature II: 1600 - Present	3
ENGL 230 Asian American Literature.....	3
ENGL 238 Evaluating Children’s Literature.....	3
ENGL 240 Shakespeare	3

Select one course from:	Units
ENGL 245A Writing Creative Nonfiction	3
ENGL 252A Fundamentals of Fiction Writing ..3	
ENGL 252B Intermediate Fiction Writing	3
BLAS 155 African American Literature	3
CHIC 135 Chicana/o Literature.....	3
ENGL 208 Introduction to Literature	3
ENGL 210 American Literature I.....	3
ENGL 211 American Literature II	3
ENGL 215 English Literature I: 800-1799	3
ENGL 216 English Literature II: 1800 - Present 3	
ENGL 220 .. Masterpieces of World Literature I: 1500 BCE - 1600 CE	3
ENGL 221 .. Masterpieces of World Literature II: 1600 - Present	3
ENGL 230 Asian American Literature	3
ENGL 238 Evaluating Children’s Literature.....	3
ENGL 240 Shakespeare	3

**Associate in of Arts Degree
English**

Courses Required for the Major:	Units
ENGL 101 Reading and Composition or	
ENGL 105 Composition and Literature	3
ENGL 205 Critical Thinking and Intermediate	
Composition	3
ENGL 215 English Literature I: 800-1799	3
ENGL 216 English Literature II: 1800 –	
Present	3

**Select three units from the following
(recommended sequence for UC transfer):**

	Units
ENGL 208 Introduction to Literature	3
ENGL 220 Masterpieces of World Literature I:	
1500 BCE - 1600 CE	3
ENGL 221 Masterpieces of World Literature II:	
1600 - Present	3

**Select three units from the following
(recommended sequence for UC transfer):**

	Units
<u>ENGL 207 The Art of the Sentence</u>	<u>3</u>
ENGL 210 American Literature I	3
ENGL 211 American Literature II	3
ENGL 230 Asian American Literature	3
ENGL 245A Writing Creative Nonfiction	3
ENGL 247 Writing Seminar - Poetry	3
ENGL 249 Introduction to Creative Writing	3

**Courses designed to support this and other
majors:**

	Units
ESOL 019 Transitional English For ESOL	
Students	5
ESOL 020 Writing for Non-native Speakers of	
English I	6
ESOL 021 Reading for Non-native Speakers of	
English I	3
ESOL 022 Listening and Speaking for Non-native	
Speakers of English I	3
ESOL 030 Writing for Non-native Speakers of	
English II	6
ESOL 031 Reading for Non-native Speakers of	
English II	3
ESOL 032 Listening and Speaking for Non-	
Native Speakers of English II	3
ESOL 040 Reading and Writing for Non-Native	
Speakers of English III	6

Total Units = 18

ACTION

Adoption of a program revision at Mesa College.

Proposed program revisions at Mesa College:

**Certificate of Achievement
Fashion Design**

Courses Required for the Major:	Units
FASH 105 Introduction to Fashion	3
FASH 120 Fashion History and Trends.....	3
FASH 125 Fashion Selection	3
FASH 130 Apparel Construction I.....	3
FASH 140 Clothing Design and Flat Pattern I...3	
FASH 142 Fashion Sketching	3
FASH 145 Clothing Design Through Draping ...3	
FASH 155 Fashion Field Studies or <u>FASH 156 International Fashion Field</u>	
<u>Studies.....</u>	<u>1 - 4</u>
FASH 175 ... Computer Fashion Design I: Adobe PhotoShop or	
FASH 176 ..Computer Fashion Design II: Adobe Illustrator.....	3
FASH 199A Fashion Laboratory A.....	1
FASH 199B Fashion Laboratory B	1
FASH 270 Work Experience.....	2-4 <u>1-4</u>
FASH 168 Textiles.....	3

Total Units = ~~32-37~~ 31-37

**Associate in Science Degree
Fashion Design**

Courses Required for the Major:	Units
FASH 105 Introduction to Fashion	3
FASH 120 Fashion History and Trends	3
FASH 125 Fashion Selection	3
FASH 130 Apparel Construction I.....	3
FASH 131 Apparel Construction II.....	3
FASH 140 Clothing Design and Flat Pattern I...3	
FASH 142 Fashion Sketching	3
FASH 145 Clothing Design Through Draping ...3	
FASH 150 Advanced Fashion Design.....	3
FASH 155 Fashion Field Studies or <u>FASH 156 International Fashion Field</u>	
<u>Studies</u>	<u>1 - 4</u>
FASH 175 Computer Fashion Design I: Adobe PhotoShop or	
FASH 176 Computer Fashion Design II: Adobe Illustrator	3
FASH 199A Fashion Laboratory A.....	1
FASH 199B Fashion Laboratory B	1
FASH 199CFashion Laboratory C	1
FASH 270 Work Experience.....	2-4 <u>1-4</u>
FASH 168 Textiles.....	3
CBTE 140 Microsoft Excel.....	2
ARTF 150A Two-Dimensional Design.....	3

Choose three units from the following: Units

FASH 121 Ethnic Costume: History and Design.....	1
FASH 135 Tailoring.....	3
FASH 141 Clothing Design and Flat Pattern II	3
FASH 160 Millinery Techniques	1
FASH 161 Millinery Flat Pattern Design.....	1
FASH 162 Millinery Blocking	1
FASH 170 Textile Design	1
FASH 171 Computer Flat Pattern Design	3
FASH 172 Computer Flat Pattern Design II	3

Total Units = ~~47-49~~ 46-52

**Certificate of Achievement
Fashion Merchandising**

Course Required for the Major:	Units
FASH 105 Introduction to Fashion	3
FASH 108 Analysis, Evaluation, and Comparison of Ready-to-Wear Fashion	3
FASH 110 Fashion Buying/Management.....	3
FASH 112 Fashion Promotion	3
FASH 115 Visual Merchandising.....	3
FASH 125 Fashion Selection	3
FASH 155 Fashion Field Studies or <u>FASH 156 International Fashion Field</u>	
<u>Studies.....</u>	1 - 4
FASH 178 Computer Publishing and Portfolio ..	3
FASH 270 Work Experience	2 - 4
FASH 168 Textiles.....	3
CBTE 140 Microsoft Excel	2

Total Units = 32-37

**Associate in Science Degree
Fashion Merchandising**

Course Required for the Major:	Units
FASH 105 Introduction to Fashion	3
FASH 108 Analysis, Evaluation, and Comparison of Ready-to-Wear Fashion	3
FASH 110 Fashion Buying/Management.....	3
FASH 112 Fashion Promotion	3
FASH 115 Visual Merchandising.....	3
FASH 125 Fashion Selection	3
FASH 155 Fashion Field Studies or <u>FASH 156 International Fashion Field</u>	
<u>Studies.....</u>	1 - 4
FASH 178 Computer Publishing and Portfolio ..	3
FASH 270 Work Experience	2 - 4
ARTF 150A Two-Dimensional Design.....	3
FASH 168 Textiles.....	3
CBTE 140 Microsoft Excel	2

Select one course from:	Units
MARK 105 Professional Selling or	3
MARK 110 Principles of Retailing or	3
MARK 130 Advertising Principles	3

Total Units = 38-43

ACTION

Adoption of a program revision at Miramar College.

Proposed program revisions at Miramar College:

Certificate of Achievement
Fire Protection
Fire Officer Certification

Courses Required for the Major:	Units
<u>FIPT 320A Command 1A</u>	<u>1</u>
<u>FIPT 320B Fire Command 1B</u>	<u>1</u>
<u>FIPT 320C Command 1C</u>	<u>1</u>
<u>FIPT 330A Fire Prevention I</u>	<u>0.5</u>
<u>FIPT 200A Fire Command IA</u>	<u>2</u>
<u>FIPT 200B Fire Command IB</u>	<u>2</u>
<u>FIPT 200C Fire Command 1C</u>	<u>1.5</u>
<u>FIPT 201 Fire Management I</u>	<u>2</u>
<u>FIPT 202A Fire Prevention IA</u>	<u>2</u>
<u>FIPT 202B Fire Prevention IB</u>	<u>2</u>
<u>FIPT 203A Fire Investigation IA</u>	<u>2</u>
<u>FIPT 206A Instructor Training 1A: Psychomotor</u> <u>Lesson Delivery</u>	<u>2</u>
<u>FIPT 206B Instructor Training 1B: Cognitive</u> <u>Lesson Delivery</u>	<u>2</u>
<u>FIPT 328A Fire Management I</u>	<u>2</u>
<u>FIPT 381F Basic Fire Fighter 1 Academy</u>	<u>9</u>
<u>EMGM 105A Emergency Medical Technician -</u> <u>National Registry</u>	<u>7</u>

Total Units = ~~33.5~~ 27.5

Associate in Science Degree
Fire Protection
Fire Officer Certification

Courses Required for the Major:	Units
<u>FIPT 320A Command 1A</u>	<u>1</u>
<u>FIPT 320B Fire Command 1B</u>	<u>1</u>
<u>FIPT 320C Command 1C</u>	<u>1</u>
<u>FIPT 330A Fire Prevention I</u>	<u>0.5</u>
<u>FIPT 200A Fire Command IA</u>	<u>2</u>
<u>FIPT 200B Fire Command IB</u>	<u>2</u>
<u>FIPT 200C Fire Command 1C</u>	<u>1.5</u>
<u>FIPT 201 Fire Management I</u>	<u>2</u>
<u>FIPT 202A Fire Prevention IA</u>	<u>2</u>
<u>FIPT 202B Fire Prevention IB</u>	<u>2</u>
<u>FIPT 203A Fire Investigation IA</u>	<u>2</u>
<u>FIPT 206A Instructor Training 1A: Psychomotor</u> <u>Lesson Delivery</u>	<u>2</u>
<u>FIPT 206B Instructor Training 1B: Cognitive</u> <u>Lesson Delivery</u>	<u>2</u>
<u>FIPT 328A Fire Management I</u>	<u>2</u>
<u>FIPT 381F Basic Fire Fighter 1 Academy</u>	<u>9</u>
<u>EMGM 105A Emergency Medical Technician -</u> <u>National Registry</u>	<u>7</u>

Total Units = ~~33.5~~ 27.5

**Certificate of Achievement
Fire Prevention**

Courses Required for the Major:	Units
ENGL 101 Reading and Composition	3
FIPT 101 Fire Protection Organization	3
FIPT 102 Fire Prevention Technology	3
FIPT 103 Fire Protection Equipment and Systems	3
FIPT 104 Building Construction for Fire Protection	3
FIPT 105 Fire Behavior and Combustion.....	3
FIPT 202A Fire Prevention IA	2
FIPT 202B Fire Prevention IB.....	2
FIPT 202C Fire Prevention IC.....	2
FIPT 203A Fire Investigation IA.....	2
FIPT 203A Fire Investigation IA.....	2
FIPT 205 Public Education I.....	2
<u>FIPT 330A Fire Prevention I.....</u>	<u>0.5</u>
<u>ADJU 356A 832 PC Laws of Arrest</u>	<u>2.5</u>
<u>ADJU 357A 832 PC Laws of Arrest</u>	<u>1</u>

Total Units = ~~30.5~~ 21.5

**Associate in Science Degree
Fire Prevention**

Courses Required for the Major:	Units
ENGL 101 Reading and Composition.....	3
FIPT 101 Fire Protection Organization	3
FIPT 102 Fire Prevention Technology	3
FIPT 103 Fire Protection Equipment and Systems	3
FIPT 104 Building Construction for Fire Protection.....	3
FIPT 105 Fire Behavior and Combustion.....	3
FIPT 202A Fire Prevention IA	2
FIPT 202B Fire Prevention IB	2
FIPT 202C Fire Prevention IC	2
FIPT 203A Fire Investigation IA	2
FIPT 203A Fire Investigation IA	2
FIPT 205 Public Education I.....	2
<u>FIPT 330A Fire Prevention I.....</u>	<u>0.5</u>
<u>ADJU 356A 832 PC Laws of Arrest</u>	<u>2.5</u>
<u>ADJU 357A 832 PC Laws of Arrest</u>	<u>1</u>

Total Units = ~~30.5~~ 21.5

**Certificate of Achievement
Fire Technology**

Courses Required for the Major:	Units
FIPT 150A Introduction to Fire Suppression and Maintenance Manipulative Tasks (Beginning)	1.5
FIPT 101 Fire Protection Organization	3
FIPT 102 Fire Prevention Technology	3
FIPT 103 Fire Protection Equipment and Systems	3
FIPT 104 Building Construction for Fire Protection	3
FIPT 105 Fire Behavior and Combustion.....	3
FIPT 107 Fire Fighting Tactics and Strategy	3
FIPT 109 Fire Service Hydraulics	3
FIPT 110 Wildland Fire Control	3
FIPT 120 Firefighter Safety and Survival	3
<u>FIPT 323B Haz Mat Emergency Response First Responder Operational.....</u>	<u>0.5</u>
<u>FIPT 308C Confined Space Awareness</u>	<u>0.2</u>
EMGM 105A Emergency Medical Technician - National Registry	7
Total Units = 35.5 <u>36.2</u>	

**Associate in Science Degree
Fire Technology**

Courses Required for the Major:	Units
FIPT 150A Introduction to Fire Suppression and Maintenance Manipulative Tasks (Beginning)	1.5
FIPT 101 Fire Protection Organization	3
FIPT 102 Fire Prevention Technology	3
FIPT 103 Fire Protection Equipment and Systems	3
FIPT 104 Building Construction for Fire Protection.....	3
FIPT 105 Fire Behavior and Combustion.....	3
FIPT 107 Fire Fighting Tactics and Strategy	3
FIPT 109 Fire Service Hydraulics	3
FIPT 110 Wildland Fire Control	3
<u>FIPT 120 Firefighter Safety and Survival</u>	<u>3</u>
<u>FIPT 323B Haz Mat Emergency Response First Responder Operational</u>	<u>0.5</u>
<u>FIPT 308C Confined Space Awareness</u>	<u>0.2</u>
EMGM 105A Emergency Medical Technician - National Registry or	7
FIPT 130 Emergency Medical Technician State Fire Marshall.....	6
Total Units = 28.5-29.5 <u>36.2</u>	

**Certificate of Achievement
Open Water Lifeguard Professional**

Courses Required for the Major:	Units
EMGM 105A Emergency Medical Technician - National Registry	7
FIPT 063 Personal Watercraft Operations.....	1
FIPT 115 Low Angle Rope Rescue	0.5
FIPT 121 Vertical Rescue	1.5
FIPT 160 Introduction to Open Water Lifeguarding	3
FIPT 206A Instructor Training 1A: Psychomotor Lesson Delivery	2
FIPT 206B Instructor Training 1B: Cognitive Lesson Delivery	2
FIPT 243 Rescue Systems I - Fundamentals of Heavy Rescue	1.5
FIPT 308A Confined Space Technician	1
FIPT 311M Swiftwater Rescue Technician I	1
ADJU 102 Criminal Law I	3
ADJU 167 Report Writing.....	3
ADJU 356A 832 PC Laws of Arrest	2.5
ADJU 356B 832 PC Firearms	1
<u>ADJU 357A 832 PC Laws of Arrest</u>	<u>1</u>
<u>ADJU 357B 832 PC Firearms</u>	<u>0.5</u>

Total Units = ~~30~~ 28

**Associate in Science Degree
Open Water Lifeguard Professional**

Courses Required for the Major:	Units
EMGM 105A Emergency Medical Technician - National Registry	7
FIPT 115 Low Angle Rope Rescue	0.5
FIPT 121 Vertical Rescue	1.5
FIPT 160 Introduction to Open Water Lifeguarding	3
FIPT 206A Instructor Training 1A: Psychomotor Lesson Delivery	2
FIPT 206B Instructor Training 1B: Cognitive Lesson Delivery	2
FIPT 311M Swiftwater Rescue Technician I	1
ADJU 102 Criminal Law I	3
ADJU 167 Report Writing	3
ADJU 356A 832 PC Laws of Arrest	2.5
<u>ADJU 357A 832 PC Laws of Arrest</u>	<u>1</u>

Total Units = ~~25.5~~ 24

ACTION

Adoption of a program revision at Mesa College.

Proposed program revision at Mesa College:

**Associate in Science Degree
Health Information Technology**

Courses Required for the Major:	Units
<u>HEIT 075 Computer Basics for Health Information Technology</u>	<u>1</u>
HEIT 110 Introduction to Health Information....	4
<u>HEIT 125 Basic Pharmacology for Allied Health</u>	<u>2</u>
HEIT 130 Basic Pharmacology	1
HEIT 155A ICD Coding I	4
HEIT 155B ICD Coding II	4
HEIT 155C Current Procedural Terminology (CPT) Coding.....	3
HEIT 156 Hospital and Health Statistics.....	3
HEIT 205 Health Law, Accreditation and Licensing Standards	3
HEIT 258 Quality Assessment, Utilization Review & Risk Management	3
<u>HEIT 260 Principles of Supervision and Administration</u>	<u>3</u>
HEIT 261 Directed Clinical Practice A	2
HEIT 262 Directed Clinical Practice B	2
<u>MEDA 055 Fundamentals Human Anatomy and Physiology</u>	<u>3</u>
MEDA 110 Medical Terminology	3
MEDA 115 Pathophysiology.....	3
CISC 181 Principles of Information Systems.....	4
CBTE 180 Microsoft Office	3

Total Units = 49 30

ACTION

Adoption of a program revision at Mesa College.

Proposed program revision at Mesa College:

**Certificate of Achievement
Honors Global Competencies
Certificate**

Courses Required for the Major:	Units
COMS 180 Intercultural Communication	3
COMS 135 Interpersonal Communication	3
ENGL 205 Critical Thinking and Intermediate Composition.....	3
ENGL 208 Introduction to Literature	3
MATH 118 A Survey of Modern Mathematics..	3
MATH 119 Elementary Statistics.....	3
PHIL 100 Logic and Critical Thinking.....	3
PHIL 205 Critical Thinking and Writing in Philosophy	3
SOCO 201 Advanced Principles of Sociology ...	3
SOCO 223 Globalization and Social Change	3

Languages Select 5 units from the following:	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
FREN 101 First Course in French	5
FREN 102 Second Course in French.....	5
FREN 201 Third Course In French	5
FREN 202 Fourth Course in French.....	5
GERM 101 First Course in German	5
GERM 102 Second Course in German.....	5
GERM 201 Third Course in German.....	5
ITAL 101 First Course in Italian	5
ITAL 102 Second Course in Italian.....	5
ITAL 201 Third Course in Italian.....	5
JAPN 101 First Course in Japanese.....	5
JAPN 102 Second Course in Japanese	5
JAPN 201 Third Course in Japanese	5
JAPN 202 Fourth Course in Japanese	5
LATI 101 First Course in Latin.....	5
LATI 102 Second Course in Latin	5
LATI 201 Third Course in Latin	5
RUSS 101 First Course in Russian.....	5
RUSS 102 Second Course in Russian	5
RUSS 201 Third Course in Russian	5
SPAN 101 First Course in Spanish.....	5
SPAN 102 Second Course in Spanish	5
SPAN 201 Third Course in Spanish.....	5
SPAN 202 Fourth Course in Spanish	5

SPAN 215 Spanish for Spanish Speakers I	5
SPAN 216 Spanish for Spanish Speakers II	5
TAGA 101 First Course in Tagalog	5
TAGA 102 Second Course in Tagalog.....	5
TAGA 201 Third Course in Tagalog.....	5
VIET 101 First Course in Vietnamese	5
VIET 102 Second Course in Vietnamese	5
VIET 201 Third Course in Vietnamese or AMSL 115 American Sign Language Level I and AMSL 115L American Sign Language I (Lab) or AMSL 116 American Sign Language Level II and AMSL 116L American Sign Language II (Lab)	5

Global Studies Select a minimum of 12 units from 4 different disciplines:	Units
ANTH 102 Introduction to Physical Anthropology.....	3
ANTH 103 Introduction to Cultural Anthropology.....	3
ANTH 120 Archaeological Artifact Analysis	3
ANTH 200 Introduction to North American Indians	3
ANTH 215 Cultures of Latin America	3
ARTF 107 Contemporary Art	3
ARTF 109 History of Modern Art.....	3
ARTF 110 Art History: Prehistoric to Gothic	3
ARTF 113 Arts of Africa, Oceania, and the Americas	3
ARTF 115 African Art	3
ARTF 120 Native American Art	3
ARTF 125 Art History: Arts of the Asian Continent	3
ARTF 191 Cultural Influences on Photography..	3
BIOL 100 Natural History - Environmental Biology	4
BIOL 120 The Environment of Man	3
BLAS 100 Introduction to Black Studies	3
BLAS 104 Black Psychology.....	3
BLAS 110 African American Art.....	3
BLAS 111 Cultural Influences on African Art...	3
BLAS 116 Contemporary Social Problems from a Black Perspective.....	3
BLAS 120 Black Music	3
BLAS 125 Dynamics of the Black Community .	3
BLAS 130 The Black Family	3
BLAS 140A History of the U.S., Black Perspectives	3

Humanities

BLAS 140B History of the U.S, Black Perspectives	3	HUMA 102 Introduction to the Humanities II ...	3
BLAS 150 Black Women in Literature, Film and the Media	3	HUMA 103 Introduction to the New Testament.....	3
BLAS 155 African American Literature	3	HUMA 104 Introduction to the Old Testament..	3
BLAS 165 Sexuality and Black Culture.....	3	HUMA 106 World Religions	3
BLAS 175 Psycho-History of Racism and Sexism.....	3	HUMA 201 Mythology	3
CHIC 110A Introduction to Chicano Studies	3	HUMA 205 Exploring Human Values Through Film.....	3
CHIC 110B Introduction to Chicano Studies	3	JOUR 202 Introduction to Mass Communication.....	3
CHIC 135 Chicana/o Literature.....	3	MUSI 100 Introduction to Music	3
CHIC 138 Literature of La Raza in Latin America in Translation	3	MUSI 101 Music History I: Middle Ages to Mid 18th Century	3
CHIC 141A United States History from a Chicano Perspective	3	MUSI 102 Music History II: Mid 18th - Early 20th Century	3
CHIC 141B United States History from a Chicano Perspective	3	ARTF 111 Art History: Renaissance to Modern	3
CHIC 150 History of Mexico	3	MUSI 109 World Music.....	3
CHIC 170 La Chicana	3	MUSI 105 Music of Our Time	3
CHIC 190 Chicano Images in Film	3	HIST 121 Asian Civilizations in Modern Times	3
CHIC 210 Chicano Culture	3	NUTR 153 Cultural Foods	3
CHIC 230 Chicano Art.....	3	PHIL 103 Historical Introduction To Philosophy	3
CISC 181 Principles of Information Systems.....	4	PHIL 104A History Of Western Philosophy	3
COMS 103 Oral Communication	3	PHIL 106 Asian Philosophy.....	3
COMS 160 Argumentation.....	3	PHIL 104B History of Western Philosophy	3
DRAM 105 Introduction to Dramatic Arts.....	3	PHIL 107 Reflections on Human Nature	3
DRAM 112 Introduction to Script Analysis.....	3	PHIL 109 Issues in Social Philosophy	3
ECON 120 Principles of Macroeconomics.....	3	PHIL 108 Perspectives on Human Nature and Society	3
ECON 121 Principles of Microeconomics	3	PHIL 110 Philosophy of Religion	3
ENGL 101 Reading and Composition.....	3	PHIL 125 Philosophy of Women	3
ENGL 105 Composition and Literature	3	PHIL 130 Philosophy of Art and Music	3
ENGL 209 Literary Approaches to Film.....	3	POLI 101 Introduction to Political Science.....	3
ENGL 220 Masterpieces of World Literature I: 1500 BCE - 1600 CE	3	POLI 103 Comparative Politics.....	3
ENGL 221 Masterpieces of World Literature II: 1600 - Present	3	POLI 140 Contemporary International Politics ..	3
ENGL 230 Asian American Literature.....	3	PSYC 101 General Psychology	3
ENGL 238 Evaluating Children's Literature.....	3	PSYC 112 Interpersonal Relations	3
GEOG 102 Cultural Geography	3	PSYC 133 Psychology of Women	3
GEOG 104 World Regional Geography.....	3	PSYC 135 Marriage and Family Relations	3
HEAL 101 Health and Life-Style	3	PSYC 137 Human Sexual Behavior.....	3
HIST 100 World History I.....	3	PSYC 166 Introduction to Social Psychology....	3
HIST 101 World History II	3	PSYC 230 Psychology of Lifespan Development.....	3
HIST 115A History of the Americas I.....	3	PSYC 245 Abnormal Psychology	3
HIST 115B History of the Americas II.....	3	SOCO 101 Principles of Sociology	3
HIST 120 Introduction to Asian Civilizations ...	3	SOCO 110 Contemporary Social Problems	3
HIST 123 U.S. History from the Asian Pacific American Perspective	3	PERG 120 College Success and Lifelong Learning	3
HIST 131 Latin America Before Independence .	3	PERG 130 Career - Life Planning	3
HIST 141 Women in United States History I....	3	MUSI 125 Music, The Arts, and Humanity	3
HIST 150 Native Americans in United States History	3	AMSL 150 Introduction to Deaf Culture	3
HIST 151 Native Americans in United States History	3	ARCH 126 History of Ancient World Architecture	3
HIST 154 Ancient Egypt.....	3		
HUMA 101 Introduction to the Humanities I....	3		

Humanities

ARCH 127 History of World Arch: Romanesque
Through Contemporary.....3
BUSE 119 Business Communications.....3
BUSE 150 Human Relations in Business.....3
DRAM 150 Cinema as Art and
Communication I3
DRAM 151 Cinema as Art and
Communication II3
HIST 130 The Modern Middle East3
HIST 132 Latin America Since Independence ...3
ARTF 130 Pre-Columbian Art.....3
BIOL 110 Introduction to Oceanography.....3
BIOL 115 Marine Biology4
CHEM 111 Chemistry in Society3
GEOL 100 Physical Geology3
GEOL 104 Earth Science3

Total Units = 20

ACTION

Adoption of a program revision at Mesa College.

Proposed program revisions at Mesa College:

**Certificate of Achievement
Interior Design**

The Interior Design Program recommends the following courses be taken in the given sequence for optimal student success:

Courses Required for the Major:	Units
INTE 101 Introduction to Interior Design	3
INTE 115 Elements and Principles of Interior Design	3
INTE 112A Visual Communication I	3
INTE 112B Visual Communication II	3
ARCH 107 Introduction to Revit	3
ARTF 152 Color Theory	3
INTE 145 Interior Building Systems and Codes	3
INTE 120 Revit for Interiors	3
INTE 105 Residential Design	3
<u>INTE 210 Presentation and Color Rendering</u>	<u>3</u>
INTE 110 Materials and Resources	3
INTE 125 History of Furniture and Interiors	3
INTE 205 Non-Residential Space Planning	3
INTE 200 Kitchen and Bath Design	3
INTE 215 Environmental Lighting Design	3
INTE 130 Interior Design Professional Practice	3

Choose one course from the following

list:	Units
INTE 270 ¹ Work Experience	3-4 <u>1-4</u>
BLDC 055 Construction Plan Reading	3
BLDC 070 Building Codes and Zoning	3
BUSE 140 Business Law and the Legal Environment	3
BUSE 155 Managing the Small Business	3
COMS 103 Oral Communication	3
ARCH 105 Introduction to AutoCAD	2
ARCH 101 Introduction to ArchiCAD	3
ARCH 230 Sustainability in the Built Environment	5
FASH 168 Textiles	3
MARK 100 Principles of Marketing	3

¹Three to four units of INTE 270 (Work Experience) is recommended for all students. It is mandatory for students to complete INTE 270 with a qualified kitchen or bath designer to receive National Kitchen and Bath Association (NKBA) recognition.

Total Units = 47-50

**Associate in Science Degree
Interior Design**

The Interior Design Program recommends the following courses be taken in the given sequence for optimal student success:

Courses Required for the Major:	Units
INTE 101 Introduction to Interior Design	3
INTE 115 Elements and Principles of Interior Design	3
INTE 112A Visual Communication I	3
INTE 112B Visual Communication II	3
ARCH 107 Introduction to Revit	3
ARTF 152 Color Theory	3
INTE 145 Interior Building Systems and Codes	3
INTE 120 Revit for Interiors	3
INTE 105 Residential Design	3
<u>INTE 210 Presentation and Color Rendering</u>	<u>3</u>
INTE 110 Materials and Resources	3
INTE 125 History of Furniture and Interiors	3
INTE 205 Non-Residential Space Planning	3
INTE 200 Kitchen and Bath Design	3
INTE 215 Environmental Lighting Design	3
INTE 130 Interior Design Professional Practice	3

Choose one course from the following

list:	Units
INTE 270 ¹ Work Experience	3-4 <u>1-4</u>
BLDC 055 Construction Plan Reading	3
BLDC 070 Building Codes and Zoning	3
BUSE 140 Business Law and the Legal Environment	3
BUSE 155 Managing the Small Business	3
COMS 103 Oral Communication	3
ARCH 105 Introduction to AutoCAD	2
ARCH 101 Introduction to ArchiCAD	3
ARCH 230 Sustainability in the Built Environment	5
FASH 168 Textiles	3
MARK 100 Principles of Marketing	3

¹Three to four units of INTE 270 (Work Experience) is recommended for all students. It is mandatory for students to complete INTE 270 with a qualified kitchen or bath designer to receive National Kitchen and Bath Association (NKBA) recognition.

Total Units = 47-50

ACTION

Adoption of a program revision at Mesa College.

Proposed program revisions at Mesa College:

**Certificate of Achievement
Journalism**

Courses Required for the Major:	Units
ENGL 101 Reading and Composition or	
ENGL 105 Composition and Literature	3
JOUR 200 Introduction to Newswriting and Reporting	3
JOUR 210A Newspaper Production	3
JOUR 210B Newspaper Production 2	3

Choose 9 units from the following:	Units
JOUR 210C Newspaper Production 3	3
JOUR 210D Newspaper Production 4	3
JOUR 201 Advanced Newswriting and Reporting	3
JOUR 202 Introduction to Mass Communication	3
JOUR 205 Editing for Print Journalism	3
JOUR 206 Online Journalism	3
JOUR 215A Magazine Writing and Production I	3

Total Units = 21

**Associate in of Arts Degree
Journalism**

Courses Required for the Major:	Units
ENGL 101 Reading and Composition or	
ENGL 105 Composition and Literature	3
JOUR 200 Introduction to Newswriting and Reporting	3
JOUR 210A Newspaper Production	3
JOUR 210B Newspaper Production 2	3

Choose 9 units from the following:	Units
JOUR 210C Newspaper Production 3	3
JOUR 210D Newspaper Production 4	3
JOUR 201 Advanced Newswriting and Reporting	3
JOUR 202 Introduction to Mass Communication	3
JOUR 205 Editing for Print Journalism	3
JOUR 206 Online Journalism	3
JOUR 215A Magazine Writing and Production I	3

Total Units = 21

**Certificate of Achievement
Public Relations**

Courses Required for the Major:	Units
ENGL 101 Reading and Composition or	
ENGL 105 Composition and Literature	3
JOUR 200 Introduction to Newswriting and Reporting	3
JOUR 220 Principles of Public Relations	3

Choose 9 units from the following:	Units
JOUR 202 Introduction to Mass Communication	3
JOUR 210A Newspaper Production	3
JOUR 210B Newspaper Production 2	3
JOUR 210C Newspaper Production 3	3
JOUR 210D Newspaper Production 4	3
JOUR 201 Advanced Newswriting and Reporting	3
JOUR 205 Editing for Print Journalism	3
JOUR 206 Online Journalism	3

Total Units = 18

ACTION

Adoption of a program revision at City College.

Proposed program revisions at City College:

**Associate in Arts Degree
Liberal Arts and Sciences
With an Emphasis in Mathematics
and Pre-Engineering Specialization
Scientific Studies-Mathematics and
Pre-Engineering**

Students should complete a minimum of 18 units in Mathematics and Pre-Engineering courses:

Courses Required for the Major: Units

BIOL 200 Biological Statistics or	
MATH 119 Elementary Statistics or	
PSYC 258 Behavioral Science Statistics	3
CBTE 114 Introduction to Microsoft Windows	1
CBTE 161 Learning the Internet	1
CBTE 162 Web Page Creation	2
CBTE 164 Introduction to Microsoft Outlook	1
CBTE 180 Microsoft Office	3
CBTE 210 Computers in Business	3
CHEM 200 General Chemistry I - Lecture	3
CHEM 200L General Chemistry I – Laboratory	2
CHEM 201 General Chemistry II - Lecture	3
CISC 130 Introduction to Local Area Networks	1
CISC 132 Intermediate Local Area Networking	1
CISC 150 Introduction to Computer and Information Sciences	3
CISC 152 Introduction to the Linux Operating System	4
CISC 181 Principles of Information Systems	4
CISC 186 Visual Basic Programming	4
CISC 187 Data Structures and Object-Orientation	4
CISC 189A Introduction to Programming I	4
CISC 189B Introduction to Programming II	4
CISC 190 Java Programming	4
CISC 192 C/C++ Programming	4
CISC 205 Object Oriented Programming using C++	4
CISC 220 Fundamentals of Computer Game Programming	4
ELCT 111 Electrical Theory I	3
ELCT 111L Electrical Laboratory I	2

ELCT 121 Electrical Theory II	3
ELCT 121L Electrical Laboratory II	2
ELDT 124 Basic DC Electronics	4
ELDT 124L Basic DC Laboratory	1
ELDT 125 AC Circuit Analysis	4
ELDT 125L DC/AC Circuit Analysis Laboratory with Pspice	1
ELDT 230 Advanced Computer Designs	3
ENGE 101 Introduction to Engineering	1.5
ELDT 230L Advanced Computer Designs Laboratory	1
ENGE 116 Computational Methods in Engineering	3
ENGE 151 Engineering Drawing	2
ENGE 200 Statics	3
ENGE 152 Engineering Design	3
ENGE 240 Digital Systems	3
ENGE 210 Properties of Materials	3
ENGE 250 Dynamics	3
ENGE 260 Electric Circuits	3
ENGN 110 Science for Technical Applications	4
INWT 120 Network + Training	4
MATH 104 Trigonometry	3
MATH 107 Introduction to Scientific Programming	3
MATH 107L Introduction to Scientific Programming Lab	1
MATH 115 Gateway to Experimental Statistics	4
MATH 116 College and Matrix Algebra	3
MATH 118 A Survey of Modern Mathematics	3
MATH 121 Basic Techniques of Applied Calculus I	3
MATH 122 Basic Techniques of Calculus II	3
MATH 141 Precalculus	5
MATH 150 Calculus with Analytic Geometry I	5
MATH 151 Calculus with Analytic	

Liberal Arts and Sciences

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
MCTR 102A DC Circuits.....	3
MCTR 120B Basic Physics for Technical Applications II.....	4
MFET 101 Introduction to Manufacturing Engineering Technology.....	3
MFET 101A Introduction to Manufacturing I....	1
MFET 110 Industrial Safety	2
MFET 120 Manufacturing Processes	4
MFET 210 Statistical Process Control	3
PHYS 180A General Physics I.....	4
PHYS 181A General Physics Laboratory I	1
PHYS 195 Mechanics.....	5
PHYS 196 Electricity and Magnetism.....	5
PHYS 197 Waves, Optics and Modern Physics .	5
TEHW 101 Introduction to Technical Writing...	3

Total Units = 18

**Associate in of Arts Degree
Liberal Arts and Sciences
With an Emphasis in
Social and Behavioral Sciences**

Students should complete a minimum of 18 units in Social and Behavioral Science courses:

Courses Required for the Major: Units

ADJU 101 Introduction to Administration of Justice	3	CHIC 150 History of Mexico	3
ADJU 102 Criminal Law I	3	CHIC 170 La Chicana	3
ANTH 102 Introduction to Physical Anthropology	3	CHIC 190 Chicano Images in Film	3
ANTH 103 Introduction to Cultural Anthropology	3	CHIC 201 Pre-Columbian Cultures of MesoAmerica.....	3
ANTH 104 Laboratory in Physical Anthropology	1	CHIC 210 Chicano Culture	3
ANTH 107 Introduction to Archaeology.....	3	CHIL 101 Human Growth and Development.....	3
ANTH 115 Introduction to Archaeological Field Work	4	CHIL 121 Creative Art.....	3
ANTH 210 Introduction to California Indians ...	3	CHIL 131 Curriculum: Language/Science	3
ANTH 215 Cultures of Latin America	3	CHIL 133 Language and Literature	3
BIOL 200 Biological Statistics or		CHIL 135 Curriculum: Science and Math.....	3
MATH 119 Elementary Statistics or		CHIL 141 The Child, Family and Community...3	
PSYC 258 Behavioral Science Statistics	3	CHIL 151 Program Planning.....	3
BLAS 100 Introduction to Black Studies	3	CHIL 152 School Age Program Planning	3
BLAS 104 Black Psychology	3	CHIL 160 Observing and Understanding Children	2
BLAS 115 Sociology from a Black Perspective	3	CHIL 161 Observations and Issues in Child Development.....	2
BLAS 116 Contemporary Social Problems from a Black Perspective.....	3	CHIL 162 Observing and Guiding Child Behavior.....	3
BLAS 120 Black Music.....	3	CHIL 165 Children With Special Needs	3
BLAS 130 The Black Family	3	CHIL 175 Infant-Toddler Growth and Development.....	3
BLAS 135 Introduction to Black Politics.....	3	CHIL 176 Principles of Infant/Toddler Caregiving.....	3
BLAS 140A History of the U.S., Black Perspectives	3	CHIL 180 Nutrition, Health and Safety for Children	3
BLAS 140B History of the U.S, Black Perspectives	3	CHIL 202 Administration of Early Childhood Programs	3
BLAS 145A Introduction to African History	3	CHIL 210 Supervision of Early Childhood Programs	3
BLAS 145B Introduction to African History	3	CISC 181 Principles of Information Systems.....	4
BLAS 150 Black Women in Literature, Film and the Media	3	CISC 190 Java Programming	4
BLAS 155 African American Literature	3	FUTR 101 Introduction to Futures Studies	3
BLAS 165 Sexuality and Black Culture.....	3	GEND 101 Introduction to Gender Studies.....	3
CHIC 110A Introduction to Chicano Studies	3	GEOG 102 Cultural Geography	3
CHIC 110B Introduction to Chicano Studies	3	GEOG 104 World Regional Geography.....	3
CHIC 130 Mexican Literature in Translation.....	3	HIST 100 World History I.....	3
CHIC 135 Chicana/o Literature.....	3	HIST 101 World History II	3
CHIC 138 Literature of La Raza in Latin America in Translation	3	HIST 105 Introduction to Western Civilization I	3
CHIC 141A United States History from a Chicano Perspective	3	HIST 106 Introduction to Western Civilization II.....	3
CHIC 141B United States History from a Chicano Perspective	3	HIST 109 History of the United States I	3
		HIST 110 History of the United States II	3
		HIST 115A History of the Americas I.....	3
		HIST 115B History of the Americas II	3
		HIST 120 Introduction to Asian Civilizations....	3
		HIST 121 Asian Civilizations in Modern	

Liberal Arts and Sciences

Times	3
HIST 123 U.S. History from the Asian Pacific American Perspective	3
HUMS 101 Introduction to Human Aging	3
HUMS 110 Social Work Fields of Service.....	3
HUMS 120 Introduction to Social Work.....	3
LIBS 101 Information Literacy and Research Skills	1
PEAC 101 Introduction to Peace Studies	3
PEAC 102 Nonviolence and Conflict Resolution	3
PEAC 201 Environmental Sustainability, Justice and Ethics.....	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 135 Marriage and Family Relations	3
PSYC 137 Human Sexual Behavior	3
PSYC 155 Introduction to Personality	3
PSYC 161 Introduction to Counseling	3
PSYC 166 Introduction to Social Psychology	3
PSYC 211 Learning.....	3
PSYC 230 Psychology of Lifespan Development.....	3
PSYC 245 Abnormal Psychology	3
PSYC 255 Introduction to Psychological Research.....	3
PSYC 260 Introduction to Physiological Psychology	3
SOCO 101 Principles of Sociology	3
SOCO 110 Contemporary Social Problems	3
SOCO 125 Sociology of the Family	3
SOCO 150 Sociology of Latinos/Latinas	3
SOCO 201 Advanced Principles of Sociology ...	3
SOCO 223 Globalization and Social Change	3
SPAN 201 Third Course in Spanish	5

Total Units = 18

ACTION

Adoption of a program revision at Mesa College.

Proposed program revision at Mesa College:

Associate in of Arts
Liberal Arts and Sciences- with an
Emphasis in Art Studies-~~Art~~
Art and Art Studies

Courses Required for the Major:	Units
ARTF 110 Art History: Prehistoric to Gothic ...	3
ARTF 111 Art History: Renaissance to Modern.....	3
ARTF 150A Two-Dimensional Design.....	3

Select a minimum of 9 units:	Units
ARTF 100 Art Orientation	3
<u>ARTF 107 Contemporary Art.....</u>	<u>3</u>
ARTF 109 History of Modern Art.....	3
ARTF 113 Arts of Africa, Oceania, and the Americas	3
<u>ARTF 115 African Art</u>	<u>3</u>
<u>ARTF 120 Native American Art</u>	<u>3</u>
<u>ARTF 125 Art History: Arts of the Asian Continent</u>	<u>3</u>
<u>ARTF 130 Pre-Columbian Art</u>	<u>3</u>
ARTF 150B Beginning Graphic Design.....	3
ARTF 151 Three-Dimensional Design.....	3
ARTF 155A Freehand Drawing I.....	3
ARTF 155B Freehand Drawing II.....	3
<u>ARTF 161A Museum Studies/Gallery Exhibition Skills I.....</u>	<u>3</u>
<u>ARTF 161B Museum Studies/Gallery Exhibition Skills II</u>	<u>3</u>
ARTF 165A Composition in Painting I.....	3
ARTF 165B Composition in Painting II.....	3
ARTF 165C Composition in Painting III	3
ARTF 165D Composition in Painting IV	3
ARTF 174A Book Arts I.....	3
ARTF 175A Sculpture I	3
ARTF 175B Sculpture II	3
ARTF 175C Sculpture III.....	3
ARTF 190A Black and White Art Photography	3
<u>ARTF 191 Cultural Influences on Photography</u>	<u>3</u>
<u>ARTF 194 Critical Photography.....</u>	<u>3</u>
ARTF 198A Introduction to Printmaking I	3
ARTF 198B Introduction to Printmaking II	3
ARTF 198C Introduction to Printmaking III.....	3
<u>ARTF 205A New Genres: Art in the Twenty-First Century</u>	<u>3</u>

ARTF 210A Life Drawing I.....	3
ARTF 210B Life Drawing II.....	3
ARTF 210C Life Drawing III.....	3
ARTF 220A Life Sculpture I.....	3
ARTF 220B Life Sculpture II.....	3
ARTF 220C Life Sculpture III	3
<u>ARTF 231 Introduction to Digital Art.....</u>	<u>3</u>
<u>ARTF 233 Introduction to Digital Photographic Imaging.....</u>	<u>3</u>

Total Units = 18

ACTION

Adoption of a program revision at Mesa College.

Proposed program revision at Mesa College:

**Associate in of Arts Degree
Psychology**

Courses Required for the Major: Units
PSYC 101 General Psychology 3

Select 15 units from the following: Units

- PSYC 111 Psychological/Social Aspects of
Aging, Death and Dying 3
- PSYC 112 Interpersonal Relations 3
- PSYC 121 Introduction to Child Psychology 3
- PSYC 125 Introduction to Behavior
Modification 3
- PSYC 133 Psychology of Women 3
- PSYC 135 Marriage and Family Relations 3
- PSYC 137 Human Sexual Behavior 3
- PSYC 155 Introduction to Personality 3
- PSYC 161 Introduction to Counseling 3
- ~~PSYC 165 Theories of Consciousness 3~~
- PSYC 201 Academic and Career Opportunities
in Psychology 1
- PSYC 211 Learning 3
- PSYC 230 Psychology of Lifespan
Development 3
- PSYC 245 Abnormal Psychology 3
- PSYC 255 Introduction to Psychological
Research 3
- PSYC 258 Behavioral Science Statistics **or**
MATH 119 Elementary Statistics 3
- PSYC 260 Introduction to Physiological
Psychology 3
- ~~PSYC 270 Work Experience 1 4~~
- PSYC 276 Field Work in Psychological
Services 3
- PSYC 290 Independent Study 1 3

Total Units = 18

Radiologic Technology

ACTION

Adoption of a program revision at Mesa College.

Proposed program revisions at Mesa College:

**Certificate of Achievement
Radiologic Technology**

Courses Required for the Major:	Units
<u>RADT 050 Concepts in Imaging Technology</u>	2
<u>RADT 085 Fluoroscopy and Radiation Safety</u>	2.5
<u>RADT 085L Fluoroscopy and Radiation Safety Laboratory</u>	0.5
<u>RADT 086 Fluoroscopy and Radiation Safety</u>	2.5
<u>RADT 086L Fluoroscopy and Radiation Safety Laboratory</u>	0.5
<u>RADT 105 Basic Radiologic Technology</u>	3
<u>RADT 110 Recording Media</u>	2
<u>RADT 121A Radiographic Exposure</u>	3
<u>RADT 121B Radiographic Exposure Laboratory</u>	0.5
<u>RADT 121 Radiographic Exposure</u>	3
<u>RADT 121L Radiographic Exposure Laboratory</u>	0.5
<u>RADT 131 Patient Care</u>	3
<u>RADT 190 Radiographic Positioning I</u>	1
<u>RADT 190L Radiographic Positioning-I Laboratory</u>	1
<u>RADT 199 Radiographic Positioning I</u>	1
<u>RADT 200 Radiographic Positioning II</u>	1
<u>RADT 211 Radiographic Positioning III</u>	1
<u>RADT 201 Radiographic Positioning II</u>	1
<u>RADT 201L Radiographic Positioning II Laboratory</u>	1
<u>RADT 210 Radiographic Positioning III</u>	1
<u>RADT 210L Radiographic Positioning III</u>	1
<u>RADT 221 Advanced Imaging Techniques</u>	2
<u>RADT 230 Radiologic Science</u>	2
<u>RADT 240 Radiation Biology</u>	1
<u>RADT 241 Sectional Anatomy</u>	1
<u>RADT 242 Organization of Radiology</u>	1
<u>RADT 251A Directed Clinical Practice I</u>	3
<u>RADT 251B Directed Clinical Practice II</u>	4
<u>RADT 252A Directed Clinical Practice III</u>	5
<u>RADT 252B Directed Clinical Practice IV</u>	5
<u>RADT 253A Directed Clinical Practice V</u>	5
<u>RADT 253B Directed Clinical Practice VI</u>	5

Total Units = 55.5

**Associate in of Science Degree
Radiologic Technology**

Courses Required for the Major:	Units
<u>RADT 050 Concepts in Imaging Technology</u>	2
<u>RADT 085 Fluoroscopy and Radiation Safety</u>	2.5
<u>RADT 085L Fluoroscopy and Radiation Safety Laboratory</u>	0.5
<u>RADT 086 Fluoroscopy and Radiation Safety</u>	2.5
<u>RADT 086L Fluoroscopy and Radiation Safety Laboratory</u>	0.5
<u>RADT 105 Basic Radiologic Technology</u>	3
<u>RADT 110 Recording Media</u>	2
<u>RADT 121A Radiographic Exposure</u>	3
<u>RADT 121B Radiographic Exposure Laboratory</u>	0.5
<u>RADT 121 Radiographic Exposure</u>	3
<u>RADT 121L Radiographic Exposure Laboratory</u>	0.5
<u>RADT 131 Patient Care</u>	3
<u>RADT 190 Radiographic Positioning I</u>	1
<u>RADT 190L Radiographic Positioning-I Laboratory</u>	1
<u>RADT 199 Radiographic Positioning I</u>	1
<u>RADT 200 Radiographic Positioning II</u>	1
<u>RADT 211 Radiographic Positioning III</u>	1
<u>RADT 201 Radiographic Positioning II</u>	1
<u>RADT 201L Radiographic Positioning II Laboratory</u>	1
<u>RADT 210 Radiographic Positioning III</u>	1
<u>RADT 210L Radiographic Positioning III</u>	1
<u>RADT 221 Advanced Imaging Techniques</u>	2
<u>RADT 230 Radiologic Science</u>	2
<u>RADT 240 Radiation Biology</u>	1
<u>RADT 241 Sectional Anatomy</u>	1
<u>RADT 242 Organization of Radiology</u>	1
<u>RADT 251A Directed Clinical Practice I</u>	3
<u>RADT 251B Directed Clinical Practice II</u>	4
<u>RADT 252A Directed Clinical Practice III</u>	5
<u>RADT 252B Directed Clinical Practice IV</u>	5
<u>RADT 253A Directed Clinical Practice V</u>	5
<u>RADT 253B Directed Clinical Practice VI</u>	5

Total Units = 55.5

ACTION

Adoption of a program revision at Miramar College.

Proposed program revision at Miramar College:

**Associate in of Arts Degree
World Languages**

Courses Required for the Major:

Select one language course sequence: Units

- SPAN 101 First Course in Spanish **and**
- SPAN 102 Second Course in Spanish **and**
- SPAN 201 Third Course in Spanish **and**
- SPAN 202 Fourth Course in Spanish **or**
- SPAN 215 Spanish for Spanish Speakers I **and**
- SPAN 216 Spanish for Spanish Speakers II **and**
- TAGA 101 First Course in Tagalog **and**
- TAGA 102 Second Course in Tagalog **and**
- TAGA 201 Third Course in Tagalog.....5

**Select the remainder of units needed to meet
the minimum of 18 from the following: Units**

- ANTH 103 Introduction to Cultural Anthropology3
- ECON 120 Principles of Macroeconomics.....3
- ECON 121 Principles of Microeconomics3
- ENGL 208 Introduction to Literature3
- ENGL 220 Masterpieces of World Literature I:
1500 BCE - 1600 CE3
- ENGL 221 Masterpieces of World Literature II:
1600 - Present3
- ENGL 230 Asian American Literature.....3
- FILI 100 Filipino American Experience.....3
- GEOG 102 Cultural Geography3
- HIST 100 World History I.....3
- HIST 101 World History II3
- HIST 105 Introduction to Western Civilization I3
- HIST 106 Introduction to Western Civilization II.....3
- HIST 120 Introduction to Asian Civilizations....3
- HIST 121 Asian Civilizations in Modern Times 3
- POLI 101 Introduction to Political Science.....3
- POLI 103 Comparative Politics.....3
- SPAN 210 Conversation and Composition Spanish I3
- SPAN 211 Conversation and Composition Spanish II3

Total Units = 18 20-21