

A. NAME OF AGENDA ITEM

Consideration and approval of new or revised courses and programs.

B. STATEMENT OF ISSUE/PURPOSE

1. Background and Purpose:

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

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

Administration of Justice

Adoption of a special topics course at Miramar College. **(Attachment A)**

Agriculture

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

Agriculture

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

Alcohol and Other Drug Studies

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

Art-Fine Art

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

Art-Graphic Design

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

Computer Business Technology

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

Computer and Information Science

Adoption of a new course at Continuing Education. **(Attachment H)**

Computer and Information Sciences

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

Cosmetology

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

Digital Media

Adoption of three new courses at Miramar College. **(Attachment K)**

Stephanie Bulger, Ph.D.  
Vice Chancellor  
Instructional Services

## B. STATEMENT OF ISSUE/PURPOSE (continued)

## 1. Background and Purpose: (continued)

## Electronic Systems

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

## Engineering Technology

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

## Fire Protection Technology

Adoption of 10 new courses at Miramar College. **(Attachment N)**

## Fire Protection Technology

Adoption of a course reactivation at Miramar College. **(Attachment O)**

## Health Information Technology

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

## Manufacturing Engineering Technology

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

## Military Electronics Technology

Adoption of 14 course deactivations at City College. **(Attachment R)**

## Music

Adoption of a new course at City College and Miramar College. **(Attachment S)**

## Radiologic Technology

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

## Shipbuilding Technology

Adoption of eight course deactivations at City College. **(Attachment U)**

## Administration of Justice

Adoption of two program revisions at Miramar College. **(Attachment V)**

## Art

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

## Art

Adoption of two program revisions at Miramar College. **(Attachment X)**

## Behavioral Sciences

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

## Biology

Adoption of a program deactivation at Miramar College. **(Attachment Z)**

## Business Administration

Adoption of three program revisions at Miramar College. **(Attachment AA)**

## Business Management

Adoption of two new programs at Miramar College. **(Attachment BB)**

## B. STATEMENT OF ISSUE/PURPOSE (continued)

## 1. Background and Purpose: (continued)

Computer Business Technology

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

Computer Business Technology

Adoption of three program revisions at City College. **(Attachment DD)**

Computer and Information Science

Adoption of two new programs at Continuing Education. **(Attachment EE)**

Cosmetology

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

Dance

Adoption of three new programs at Mesa College. **(Attachment GG)**

Electromechanical Engineering Technology

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

Electronics

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

Engineering Technology

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

English

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

Exercise Science

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

Fire Protection Technology

Adoption of six program revisions at Miramar College. **(Attachment MM)**

Health Information Technology

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

Interdisciplinary Studies

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

Liberal Arts and Sciences

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

Manufacturing Engineering Technology

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

Mechanical Design Technology

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

Music

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

B. STATEMENT OF ISSUE/PURPOSE (continued)

1. Background and Purpose: (continued)

Paralegal

Adoption of two program revisions at Miramar College. (**Attachment TT**)

Physical Science

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

Physical Science

Adoption of two program revisions at Miramar College. (**Attachment VV**)

Shipbuilding Technology

Adoption of two program deactivations at City College. (**Attachment XX**)

Sustainable Urban Agriculture

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

Visual and Performing Arts

Adoption of two new programs at City College. (**Attachment ZZ**)

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 a special topics (framework) course at Miramar College.

Proposed special topics course at Miramar College:

**392S Special Topics in Instructor Development**  
**1 hour lecture, 7 - 20.5 hours lab, 0.2 units**  
**Grade Only**

*Prerequisite:* Administration of Justice 323A with a grade of "C" or better, or equivalent S.T.C. Certified Correctional Officer Core Course Academy or Administration of Justice 381, Administration of Justice 382, Administration of Justice 383 and Administration of Justice 384, each with a grade of "C" or better, or equivalent Basic POST Certified Academy.

This course is designed for peace officers, correctional personnel, and military law enforcement personnel seeking certification as instructors in a law enforcement related subject area. Instructional theory, principles, and techniques are taught from a variety of different focus areas that may vary from term to term. Focus areas may include defensive tactics instruction, field training officer instruction, firearms instruction, police baton instruction, non-lethal chemical agents instruction, or emergency vehicle instruction, among others. Focus areas are listed in the class schedule and student transcripts. This course is intended for practicing law enforcement officers. (FT) Associate Degree Credit only and not Transferable.

ACTION

Adoption of two new courses at City College.

Proposed new courses at City College:

**114 Plant Propagation and Greenhouse  
Production**

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

**Grade Only**

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

This course is an introduction to plant propagation and greenhouse production practices. Emphasis is placed on greenhouse operations, propagation techniques, and management of seed germination and seedling development. Topics include sexual and asexual reproduction, planting and transplanting, fertilizing, pest and disease management, propagation media and soil mixes, greenhouse structure and site layout, use and maintenance of tools and equipment, and regulations pertaining to plant production. This course is intended for students majoring in Agricultural Plant Science or Sustainable Urban Agriculture and all students interested in agricultural production management. (FT)  
Associate Degree Credit & transfer to CSU.

**120 Introduction to Agricultural Plant Science**

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

**Grade Only**

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

This course is an introduction to agricultural plant science. Emphasis is placed on the anatomy, development, physiology, reproductive biology, and ecology and evolution of agricultural plant groups. Topics also include post-harvest factors of food, fiber, and ornamental plants. This course is intended for students majoring in Agricultural Plant Science or Sustainable Urban Agriculture and all students interested in plant science. (FT)  
Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a course deactivation at City College.

Proposed course deactivation at City College:

**112 Organic Greenhouse Management and  
Plant Propagation**

**16 - 18 hours lecture, 48 - 54 hours lab, 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 skills and concepts associated with the propagation of crop plants. Beginning with seed and seedling biology, the course introduces the cultural requirements and management practices involved in seed germination and seedling development, propagation media, soil mixes, greenhouse structures, greenhouse pest and pathogen management, and general skills in getting plants off to a healthy start, which is critical to successful crop production. Organic methods are emphasized. This course is intended for students interested in agricultural production, management and education and ecology. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a new course at City College.

Proposed new course at City College:

**159 Co-Occurring Disorders in Chemical  
Dependency Counseling**

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

*Advisory:* English for Speakers of Other Languages 45 or 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; Alcohol and Other Drug Studies 150, Alcohol and Other Drug Studies 154, and Psychology 101, each with a grade of "C" or better, or equivalent.

This course is a study of co-occurring disorders, a condition which occurs when a person has a substance use disorder and a separate psychiatric diagnosis or other mental health-related symptoms or problems. Students learn the definitions and terms related to co-occurring disorders and the principles that guide systems of care for persons with co-occurring disorders. Emphasis is placed on identifying the most current, evidence-based practices for treating co-occurring disorders and applying screening, assessment, referral, and treatment protocols for persons with co-occurring disorders who enter substance use treatment facilities. Students demonstrate the skills necessary to apply for California state certification as an alcohol and other drug counselor as they relate to treating co-occurring disorders and familiarity with the terminology, diagnoses, and treatment conditions of the mental health field. This course is intended for students in the Alcohol and Other Drug Studies program. Note that material presented in this course is clinical in nature and may not be suitable for the general population of students. (FT) Associate Degree Credit & transfer to CSU.



ACTION

Adoption of a new course at City College.

Proposed new course at City College:

**212 Sustainable Art and Design**

**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.

This course is an introduction to sustainable art and design practices. Emphasis is placed on current sustainability principles, practices, and material assessments. Students research and produce art and design projects specific to their individual fields of study: graphic design, fine art, industrial design, photography, interior design, or product design. This course is intended for students majoring in art or design and anyone interested in sustainable art and design practices. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a course deactivation at Miramar College.

Proposed course deactivation at Miramar College:

**149 Studio Practices**

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

*Limitation on Enrollment:* Must obtain an Add Code from the instructor for enrollment. Students must submit portfolio of graphic design work in order to obtain an add code from the instructor for registration.

This advanced course is designed to provide opportunities for professional practice in the field of graphic design. Whenever possible students will work on real jobs for non-profit organizations and San Diego City or Miramar College.

Interfacing with clients, developing design briefs and graphic problem solving will result in printed portfolio samples. This course is intended for students majoring in graphic design. (FT)  
Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a new course at City College.

Proposed new course at City College:

**155 SharePoint Using Office 365**  
**24 - 27 hours lecture, 24 - 27 hours lab, 2 units**  
**Grade Only**

*Advisory:* English for Speakers of Other Languages 45 or English 47A or English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.

This course provides students with the fundamental knowledge and skills required to work with Microsoft SharePoint using Microsoft 365. Students create, edit and maintain collaboration sites, including webpages, user communities, wikis and blogs in office environments that require multi-user access. 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 skills. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a new course at Continuing Education.

Proposed new course at Continuing Education:

**644 Server Side Web Development**

This course includes the installation, configuration and management of a web server application. Students will learn about the structure and components of static and dynamic websites, programming web applications, and database management. Students will be introduced to web server software, programming languages used to create web applications, and how to use a database to create dynamic websites. (FT)

ACTION

Adoption of a course reactivation at Mesa College.

Proposed course reactivation at Mesa College:

**71 MicroController Programming**

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

**Grade Only**

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

This course introduces students to programming and interfacing microcontrollers to the world around them. Topics include programming a microcontroller to respond to inputs and to control various devices, such as LEDs, fans, servos, and relays. This course is designed for students who want to increase their understanding of microcontrollers and embedded programming.

(FT) Associate Degree Credit only and not Transferable.

ACTION

Adoption of two new courses at City College.

Proposed new courses at City College:

**85 Nail Technician I**

**24 - 27 hours lecture, 192 - 216 hours lab, 5.5  
units  
Grade Only**

This course is the first of a two course series that prepares students for the California Board of Barbering and Cosmetology Nail Technician exam. Emphasis is placed on sanitation, disinfection, and sterilization of the nail salon and nail technician tools and health and safety in the nail salon. Topics include basic anatomy of the hand and foot, nail diseases and disorders, manicuring, pedicuring, massage and reflexology. This course is designed for students interested in a career as a nail technician. (FT) Associate Degree Credit only and not Transferable.

**86 Nail Technician II**

**24 - 27 hours lecture, 192 - 216 hours lab, 5.5  
units  
Grade Only**

This course is the second of a two course series that prepares students for the California Board of Barbering and Cosmetology Nail Technician exam. Emphasis is placed on sanitation, disinfection, and sterilization of the nail salon and nail technician tools and health and safety in the nail salon. Topics include nail wraps, nail tips, nail design, chemistry for the nail technicians, and salon management. This course is designed for students interested in a career as a nail technician. (FT) Associate Degree Credit only and not Transferable.

## Digital Media

### ACTION

Adoption of three new courses at Miramar College.

Proposed new courses at Miramar College:

**50 Beginning Graphics, Communicating With Computers**  
**24 - 27 hours lecture, 72 - 81 hours lab, 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 or W5; Mathematics 38 with a grade of "C" or better, or equivalent or Assessment Skill Level M30. This course prepares students to produce effective computer-aided graphics. Topics include current techniques and workflows that create print and screen graphics for publication; promotion; web; mobile app; sign and display; packaging; imprinted goods; and business communications using Adobe® Creative Cloud® and Apple® computers. This course is intended for students majoring in Graphics or anyone interested in graphic design trade skills and capabilities. (FT) Associate Degree Credit only and not Transferable.

**190 Ethical Business Practices for Creative Services**  
**24 - 27 hours lecture, 72 - 81 hours lab, 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; Mathematics 38 with a grade of "C" or better, or equivalent or Assessment Skill Level M30. Digital Media 50 or Art-Fine Art 150B, each with a grade of "C" or better, or equivalent. This course prepares students in the creative arts for the business world. Basic business types are surveyed using examples from the local market, including a review of current requirements for licensing, taxes, contracts, billing, and practice management. Students also learn basic database skills for designing and implementing the accounting, promotional, management, and publication tasks needed for studio- or client-based work. Students' graphics and business skills are integrated and applied to sales, advertising, direct marketing, and public relations both for their own and their clients' benefit. This course is intended for students majoring in Graphics or anyone preparing to enter the creative services industry. (FT) Associate Degree Credit & transfer to CSU.

**192 Graphic Business Promotion: Creative  
Services Career Management**  
**24 - 27 hours lecture, 72 - 81 hours lab, 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; Mathematics 38 with a grade of "C" or better, or equivalent or Assessment Skill Level M30. Art-Fine Art 150B with a grade of "C" or better, or equivalent.

This course prepares students to identify and obtain entry-level positions in the creative services industry. Students learn to self-assess their work-related assets and liabilities, research job markets, and identify employment opportunities. Other topics include the development of self-promotion tools such as portfolios and résumés, networking, interpersonal work skills, and career paths. This course is intended for students majoring in Graphics or anyone preparing to enter the creative services industry. (FT) Associate Degree Credit & transfer to CSU.



ACTION

Adoption of a course deactivation at City College.

Proposed course deactivation at City College:

**100 Electronic Assembly and Certification**  
**32 - 36 hours lecture, 96 - 108 hours lab, 4 units**  
**Grade Only**

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

*Limitation on Enrollment:* This course is not open to students with previous credit for Electronic Systems 110.

This course is open to students with credit for Electronic Systems 110. This is a combination electronic survey and electronic assembly course. Using a modular approach, students are systematically promoted from one electrical concept to the next. Topics include D.C. electronics, A.C electronics, semiconductors, power supplies, amplifiers, oscillators, digital gates, and fiber optics. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a course deactivation at City College.

Proposed course deactivation at City College:

**220 Component Design**

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

*Advisory:* Engineering 151 and Engineering Technology 110, each with a grade of "C" or better, or equivalent.

This course emphasizes the application of mechanical design for component devices. The lecture material for this course is enhanced by a laboratory experience in design techniques including the creation of drawings using CAD (Computer Aided Design), computer solutions of design problems, component sizing and dimension determinations, mechanisms and design solution of mechanical component problems. This course is intended for students majoring in Engineering Technology. (FT) Associate Degree Credit & transfer to CSU.

## Fire Protection Technology

### ACTION

Adoption of 10 new courses at Miramar College.

Proposed new courses at Miramar College:

#### **323C Hazardous Materials Incident Commander**

**4 hours lecture, 12 - 20 hours lab, 0.5 units  
Grade Only**

*Advisory:* Fire Protection Technology 381F with a grade of "C" or better, or equivalent.

This course provides the tools a person needs to assume control of an emergency response to a hazardous materials incident. Topics include hazard assessment, risk management, legal compliance, and protective action implementation. Instructional methods include class activities, case studies and tabletop exercises with emphasis on applied decision making. This course is intended for practicing firefighters seeking advancement to the company officer level. (FT) Associate Degree Credit only and not Transferable.

#### **340 Company Officer 2A: Human Resource Management for Company Officers**

**32 - 44 hours lab, 0.5 units  
Grade Only**

*Advisory:* Fire Protection Technology 381F with a grade of "C" or better, or equivalent.

This course provides information on the use of human resources to accomplish assignments. Topics include evaluating member performance; supervising personnel; and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene. This course is intended for practicing firefighters seeking advancement to the company officer level. (FT) Associate Degree Credit only and not Transferable.

#### **341 Company Officer 2B: General Administration Functions for Company Officers**

**4 hours lecture, 12 - 20 hours lab, 0.5 units  
Grade Only**

*Advisory:* Fire Protection Technology 381F with a grade of "C" or better, or equivalent.

This course provides information on general administrative responsibilities of a fire company officer. Other topics include the implementation of department policies and procedures as well as conveying the fire department's role, image, and mission to the public. This course is intended for practicing firefighters seeking advancement to the company officer level. (FT) Associate Degree Credit only and not Transferable.

#### **342 Company Officer 2C: Fire Investigation and Inspection for Company Officers**

**32 - 44 hours lab, 0.5 units  
Grade Only**

*Advisory:* Fire Protection Technology 381F with a grade of "C" or better, or equivalent.

This course provides information on conducting inspections; identifying hazards and addressing violations; performing a fire investigation to determine preliminary cause; and securing the incident scene and preserving evidence. This course is intended for practicing firefighters seeking advancement to the company officer level. (FT) Associate Degree Credit only and not Transferable.

## Fire Protection Technology

### **343 Company Officer 2D: All Risk Command Operations for Company Officers** **32 - 44 hours lab, 0.5 units** **Grade Only**

*Advisory:* Fire Protection Technology 323C and Fire Protection Technology 381F, each with a grade of "C" or better, or equivalent.  
This course prepares students to conduct a variety of command operations. Topics include incident size-up; initial plans of action involving single and multiunit operations for various types of emergency incidents; situation mitigation utilizing agency safety procedures; pre incident planning; and post-incident analysis. This course is intended for practicing firefighters seeking advancement to the company officer level. (FT) Associate Degree Credit only and not Transferable.

### **344 Company Officer 2E: Wildland Incident Operations for Company Officers** **32 - 44 hours lab, 0.5 units** **Grade Only**

*Advisory:* Fire Protection Technology 324D, Fire Protection Technology 343, and Fire Protection Technology 381F, each with a grade of "C" or better, or equivalent.  
This course provides information on Wildland Urban Interface (WUI) command operations. Topics include evaluating and reporting incident conditions; analyzing incident needs; developing and implementing a plan of action to deploy incident resources; suppressing a wildland fire; establishing an incident command post; creating an Incident Action Plan (IAP); and completing incident records and reports. This course is intended for practicing firefighters seeking advancement to the company officer level. (FT) Associate Degree Credit only and not Transferable.

### **345 Instructor I: Instructional Methodology** **32 - 44 hours lab, 0.5 units** **Grade Only**

*Advisory:* Fire Protection Technology 381F with a grade of "C" or better, or equivalent.  
This course covers fundamental principles and techniques of instruction with an emphasis on applied instruction in the fire service. Topics include course outline and lesson plan development; instructional aids; classroom environment management; legal and ethical issues; and instructor accountability and liability. This course is intended for practicing firefighters seeking advancement to the company officer level. (FT) Associate Degree Credit only and not Transferable.

### **350 Chief Fire Officer 3** **8 - 9 hours lecture, 96 - 108 hours lab, 2.5 units** **Grade Only**

This course provides the student with a basic knowledge of the requirements of Fire Chief. Topics include human resource management, budget and fiscal responsibilities, general administration functions, and emergency services delivery functions. This course meets the requirements for Fire Chief by combining the four California State Fire Marshal Fire Chief Officer courses. It is intended for current Battalion Chiefs and Company Officers aspiring to promote to Battalion Chief and above. (FT) Not applicable to the Associate Degree.

Fire Protection Technology

**381G Firefighter I Academy Skills Review and Certification**

**72 - 95 hours lab, 1.5 units  
Grade Only**

*Advisory:* Fire Protection Technology 381F with a grade of "C" or better, or equivalent.  
This course reinforces, combines, and integrates the skills learned in the basic fire academy in accordance with the State Fire Marshal Firefighter 1 curriculum. Students are provided the opportunity to take the National Capstone tests for International Fire Service Accreditation Congress (IFSAC) and National Board on Fire Services Professional Qualifications (Pro Board) certifications. Successful completion of this course provides the student with the opportunity to apply for employment as a firefighter in the state of California and outside of California with those states that offer reciprocity. This course is intended for students currently employed or seeking employment as firefighters. (FT) Associate Degree Credit only and not Transferable.

**381S San Diego City Basic Firefighter I Academy**

**624 - 702 hours lab, 13 units  
Grade Only**

*Prerequisite:* Emergency Medical Technician 105A with a grade of "C" or better, or equivalent EMT certificate.  
*Advisory:* Fire Protection Technology 101, Fire Protection Technology 110, Fire Protection Technology 150A, Fire Protection Technology 323B, Fire Protection Technology 324A and Fire Protection Technology 332A, each with a grade of "C" or better, or equivalent.  
*Limitation on Enrollment:* Health and Safety. Must have passed the Firefighter Entrance Exam. Must have a current Candidate Physical Abilities Test (CPAT) card or equivalent.  
This course provides students with the theory, techniques, and psychomotor skills needed to be a firefighter in the San Diego Fire-Rescue Department (SDFD). Topics include the fire service's role in society; principles of fire behavior; firefighter health and safety; fire equipment operation and maintenance; basic fire fighting tasks and techniques; and SDFD-specific policies and procedures. The course emphasizes the requirements of the California State Board of Fire Services Certified Firefighter I training, International Fire Service Accreditation Congress (IFSAC) standards, and Professional Qualifications (ProBoard) requirements. This course satisfies all training requirements for the IFSAC Firefighter I certification. It is intended for San Diego City Fire Recruits or San Diego Miramar College open enrollee students who have successfully passed the San Diego City Fire Recruit Entrance Exam. Open enrollees are selected through the "open enrollee lottery" before each academy. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a course reactivation at Miramar College.

Proposed course reactivation at Miramar College:

**324A Basic Incident Command System (NIMS  
ICS 100 & 200)**

**4 - 4.5 hours lecture, 12 - 13.5 hours lab, 0.5  
units  
Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Fire Protection Technology 310A.

This course covers the first two levels of Incident Command System (ICS) training: ICS 100 and 200. ICS 100 introduces the ICS and provides the foundation for higher level ICS training. ICS 100 topics include the history, features, principles, and organizational structure of the ICS as well as the relationship between the ICS and the National Incident Management System (NIMS). ICS 200 prepares students to operate efficiently during an incident or event within the ICS, including functioning in an ICS supervisory position. This course is intended for students majoring in Fire Technology and those preparing for entrance to a Firefighter I fire training academy. (FT) Associate Degree Credit only and not Transferable.

ACTION

Adoption of a new course at Mesa College.

Proposed new course at Mesa College:

**160 Healthcare Reimbursement**  
**32 - 36 hours lecture, 2 units**  
**Grade Only**

*Limitation on Enrollment:* Special Admission - must be admitted to program.

The topics covered include reimbursement methodologies, clinical coding and compliance, voluntary and government sponsored insurance plans, revenue cycle management and value-based purchasing. Medicare and Medicaid prospective payment systems are also addressed in acute, post-acute, ambulatory, hospice and long term care settings. This course is for Health Information Management students. (FT)  
Associate Degree Credit & transfer to CSU.

ACTION

Adoption of two course deactivations at City College.

Proposed course deactivations at City College:

**55 Metal Cutting Processes for Welding**  
**48 - 54 hours lecture, 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.

This course is a practical study of metal cutting processes for the welding trades. Emphasis is placed on instruction in oxygen/fuel and plasma arc cutting techniques used in the field of welding. This course is designed for students planning to enter the welding field. (FT) Associate Degree Credit only and not Transferable.

**60 Shielded Metal Arc Welding Process**  
**(SMAW)**

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

*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 instruction on the process and principles of Shielded Metal Arc Welding (SMAW). Emphasis is placed on the use of electrodes and basic joints in the welding trades according to the American Welding Society standards. This course is designed for students working or planning on working in the welding trades. (FT) Associate Degree Credit only and not Transferable.



## Military Electronics Technology

### ACTION

Adoption of 14 course deactivations at City College.

Proposed course deactivations at City College:

#### **50 Basic Direct Current**

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

This is a course on the basics of direct current (DC), including basic and complex circuit analysis. Emphasis is placed on the practical application of concepts in DC to calculate and measure voltage, current and resistance and to troubleshoot series, parallel, series-parallel, branch and bridge circuits. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

#### **51 Working With Direct Current**

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

*Prerequisite:* Military Electronics Technology 50 with a grade of "C" or better, or equivalent. This is a course on direct current (DC) electronics designed to develop a practical familiarity with the concepts of conductance, voltage, resistance, current, capacitance, and inductance. Emphasis is placed on a common sense approach to using the measurement equipment and math skills used in the study of direct current. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

#### **52A Basic Alternating Current I**

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

*Prerequisite:* Military Electronics Technology 50 with a grade of "C" or better, or equivalent. This is a course on the basics of alternating current (AC), power, capacitance, and inductance. Emphasis is placed on providing students with a solid understanding of AC test equipment and steady-state circuit analysis. This course designed for the military and civilian student. Associate Degree Credit only and not Transferable.

#### **52B Basic Alternating Current II**

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

*Prerequisite:* Military Electronics Technology 50 with a grade of "C" or better, or equivalent. This is a course on the basics of alternating current (AC), power, capacitance, and inductance. Emphasis is placed on providing students with a solid understanding of the fundamentals of transient and resonant AC circuit analysis, transformers, relays and switches. This course is designed for the military and civilian student. (FT) Associate Degree Credit only and not Transferable.

**53A Working With Non Resonant Alternating Current**

**40 - 45 hours lecture, 2.5 units  
Grade Only**

*Prerequisite:* Military Electronics Technology 52A with a grade of "C" or better, or equivalent. This is a course on non resonant alternating current (AC) electronics designed to develop a practical familiarity with the concepts of impedance, AC voltage, current, and power, and includes basic filter circuits. This course emphasizes a common sense approach to using the measurement equipment and math skills used in the study of non-resonant alternating current. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

**53B Working with Resonant Alternating Current**

**32 - 36 hours lecture, 2 units  
Grade Only**

*Prerequisite:* Military Electronics Technology 52B with a grade of "C" or better, or equivalent. This is a course on resonant alternating current (AC) electronics designed to develop a practical familiarity with the concepts of bandwidth, Quality factor (Q), center frequency, and resonance, and includes basic filter circuits. This course emphasizes a common sense approach to using the measurement equipment and math skills used in the study of resonant alternating current. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

**54A Basic Analog Circuits I**

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

*Prerequisite:* Military Electronics Technology 50 with a grade of "C" or better, or equivalent. This is a course on the basics of analog circuits, including diodes and diode circuits, transistor circuits, and power supplies. Emphasis is placed on identifying normally operating circuits and troubleshooting circuit faults. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

**54B Basic Analog Circuits II**

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

*Prerequisite:* Military Electronics Technology 50 with a grade of "C" or better, or equivalent. This is a course on the basics of analog circuits, including transistor circuits, oscillators and pulse circuits, trigger device circuits, operational amplifiers, and radio frequency (RF) electronics. Emphasis is placed on identifying normally operating circuits and troubleshooting common faults. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

**55A Working With Basic Analog Circuits I**

**56 - 63 hours lecture, 3.5 units  
Grade Only**

*Prerequisite:* Military Electronics Technology 54A with a grade of "C" or better, or equivalent. This is a course on the basics of diode and Bipolar Junction Transistor (BJT) circuits and power supplies designed to develop a familiarity with their operation. Emphasis is placed on a practical approach to using the measurement equipment and math tools employed in the study of electronic devices. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

## Military Electronics Technology

### **55B Working With Basic Analog Circuits II** **56 - 63 hours lecture, 3.5 units** **Grade Only**

*Prerequisite:* Military Electronics Technology 54B with a grade of "C" or better, or equivalent. This is a course on the basics of Field Effect Transistors (FETs), Thyristors, Multivibrators, Operational Amplifiers, and Optical Semiconductor Devices. The course is designed to develop an understanding and familiarity with their operation. Emphasis is placed on a practical approach to using the measurement equipment and math tools employed in the study of electronic devices. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

### **56A Basic Digital Electronics I** **48 - 54 hours lab, 1 units** **Grade Only**

*Prerequisite:* Military Electronics Technology 50 with a grade of "C" or better, or equivalent. This is a course on the basics of digital electronics. Emphasis is placed on providing students with an overview of the development of digital electronics, digital and combinational logic functions, a variety of flip-flop, conversion and data circuits. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

### **56B Basic Digital Electronics II** **24 - 27 hours lab, 0.5 units** **Grade Only**

*Prerequisite:* Military Electronics Technology 50 with a grade of "C" or better, or equivalent. This is a course on the basics of digital electronics. Emphasis is placed on providing students with an overview of arithmetic counting and microprocessor operation. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

### **57A Working With Digital Electronics** **48 - 54 hours lecture, 3 units** **Grade Only**

*Prerequisite:* Military Electronics Technology 56A with a grade of "C" or better, or equivalent. This is a course on the basics of digital electronics designed to develop a practical familiarity with digital combinational logic circuits including flip-flops, and data conversion circuits. Emphasis is placed on a common sense approach to developing and testing practical digital circuits. This course is designed for the military and civilian student. Associate Degree Credit only and not Transferable.

### **57B Working With Digital Electronics II** **40 - 45 hours lecture, 2.5 units** **Grade Only**

*Prerequisite:* Military Electronics Technology 56B with a grade of "C" or better, or equivalent. This is a course on the basics of digital electronics designed to develop a practical familiarity with data control, arithmetic logic circuits, counter applications, data multiplexing and basic microprocessor operation. Emphasis is placed on a common sense approach to developing and testing practical digital circuits. This course is designed for the military and civilian. Associate Degree Credit only and not Transferable.

Music

ACTION

Adoption of a new course at City College and Miramar College.

Proposed new course at City College and Miramar College:

**204 Audio System Design and Maintenance**  
**32 - 36 hours lecture, 48 - 54 hours lab, 3 units**  
**Grade Only**

*Prerequisite:* Music 190 and Music 201, each with a grade of "C" or better, or equivalent.  
In this course, students learn to design, operate and maintain audio systems. Lessons and assignments target commercial and residential audio systems and their design, function, installation, operation and maintenance. This course is intended for students majoring in Audio Production and Engineering or anyone interested in the operation and maintenance of audio systems. (FT) Associate Degree Credit & transfer to CSU.

## Radiologic Technology

### ACTION

Adoption of a new course at Mesa College.

Proposed new course at Mesa College:

**192 Image Analysis for Radiologic Technology**  
**32 - 36 hours lecture, 2 units**  
**Grade Only**

*Corequisite: Completion of or concurrent enrollment in Radiologic Technology 252A with a grade of "C" or better, or equivalent.*

This course is designed for students enrolled in the Radiologic Technology program. Topics include image analysis criteria for: chest and abdomen; upper extremity; shoulder; lower extremity; pelvis, hip and sacroiliac joints; cervical and thoracic vertebrae; sternum and ribs; lumbar, sacral and coccyx vertebrae; some cranium, facial bones and paranasal sinuses; and digestive system. (FT) Associate Degree Credit & transfer to CSU.

## Shipbuilding Technology

### ACTION

Adoption of eight course deactivations at City College.

Proposed course deactivations at City College:

**50 Orientation to the Maritime Professions**  
**48 - 54 hours lecture, 3 units**  
**Letter Grade or Pass/No Pass Option**

This survey course provides students with an overview of the maritime industry. It provides a broad understanding of the waterfront community, its functions, terminology, and occupational choices in the various fields in maritime as well as the place of the industry in the American economy as a whole. (FT) Associate Degree Credit only and not Transferable.

**101 Introduction to Shipbuilding Technology I**  
**48 - 54 hours lecture, 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.  
This is a survey course that covers the history, standard business models, and current concepts, theories and methods related to manufacturing in the shipbuilding industry. (FT) Associate Degree Credit & transfer to CSU.

**103 Introduction to Shipbuilding Technology II**  
**48 - 54 hours lecture, 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.  
This is a survey course designed to acquaint the student with the shipbuilding industry. The course will focus on essential products and processes required in strategic departments and organizations throughout the shipyard. (FT) Associate Degree Credit & transfer to CSU.

**110 Shipyard Safety and Safety Management**  
**48 - 54 hours lecture, 3 units**  
**Grade Only**

*Advisory:* Completion of or concurrent enrollment in English 48 and English 49, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5 and W5.  
This course focuses on the principles of behavior-based safety as it relates to: safety legislations and organizations, management and employee responsibilities and attitudes, management systems, philosophy and issues, and the physical hazards associated with the shipyard environment. (FT) Associate Degree Credit & transfer to CSU.

**115 Shipbuilding Processes**  
**48 - 54 hours lecture, 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.  
This course will investigate how ships are built; focusing on how raw materials (primarily steel) are changed into a finished product. The course provides an overview of the theory behind the manufacturing and construction processes required in shipbuilding including forming (heating, cutting, bending), separating (burning, cutting, drilling), assembling (mechanical, welding) and corrosion control. (FT) Associate Degree Credit & transfer to CSU.

## Shipbuilding Technology

### **115L Shipbuilding Processes Lab**

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

*Corequisite:* Completion of or concurrent enrollment in Shipbuilding Technology 115 with a grade of "C" or better, or equivalent.

*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 involves laboratory practice in basic metal processes. Emphasis is placed on safety, measurements, common formulas, machine, tool and equipment applications, and project work.

(FT) Associate Degree Credit & transfer to CSU.

### **201 Technological Issues: Organization and Effective Leadership in Shipbuilding**

**48 - 54 hours lecture, 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.

This course introduces shipbuilding technology students to the unique issues, problems and challenges encountered in a rapidly changing manufacturing environment. The course will analyze internal and external factors such as environment, size, technology, politics, strategy, human resources, job design and organization culture as they relate to the technologist or manager of technology. The course focuses on the basic tools and techniques for the planning and scheduling of projects, as well as the techniques for effective communication. The course will also address leadership theories, including building and motivating effective teams and the application of those theories to the shipyard environment.

(FT) Associate Degree Credit & transfer to CSU.

### **205 Culminating Project**

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

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

The Shipbuilding Technology final project is intended to be the culminating scholastic effort or capstone experience providing the student with the opportunity to use knowledge and skills acquired in previous courses in problem solving, research, teamwork, and communication in a shipbuilding environment. The student, with the approval of the assigned faculty advisor, selects a topic, develops a problem statement and outlines the approach. Then the student - by investigating and recommending a solution to a topic typical of problems graduates must solve in their field of employment - completes the project under the guidance of the faculty advisor. Project results are presented in a formal report in both written and oral format. (FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of two program revisions at Miramar College.

Proposed program revisions at Miramar College:

**Certificate of Achievement  
Correctional Technologies**

<b>Courses Required for the Major:</b>	<b>Units</b>
ADJU 101 Introduction to Administration of Justice .....	3
ADJU 102 Criminal Law I .....	3
ADJU 161 Juvenile Procedures .....	3
ADJU 162 Criminal Investigation .....	3
ADJU 167 Report Writing .....	3
ADJU 201 California Criminal Procedure .....	3
<del>ADJU 323 S.T.C. Certified Corrections Office Core Course .....</del>	<del>15</del>
<u>ADJU 323A S.T.C. Certified Corrections Officer Core Course .....</u>	<u>11.5</u>

**Total Units = ~~33~~ 29.5**

**Associate of Science Degree  
Correctional Technologies**

<b>Courses Required for the Major:</b>	<b>Units</b>
ADJU 101 Introduction to Administration of Justice .....	3
ADJU 102 Criminal Law I .....	3
ADJU 161 Juvenile Procedures .....	3
ADJU 162 Criminal Investigation .....	3
ADJU 167 Report Writing .....	3
ADJU 201 California Criminal Procedure .....	3
<del>ADJU 323 S.T.C. Certified Corrections Office Core Course .....</del>	<del>15</del>
<u>ADJU 323A S.T.C. Certified Corrections Officer Core Course .....</u>	<u>11.5</u>

**Total Units = ~~33~~ 29.5**



Art

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

Certificate of Performance Graphics-Visual Production Program

- A. Labor Market Information<sup>1</sup>: The annual average number of persons employed in the Graphics-Visual Production program area was 1,000,000\* (San Diego-Carlsbad Metropolitan Statistical Area) in the 2000-present employment years. Approximately 40,000\* new job openings are projected through 2016.
- B. Duplication<sup>2</sup>: None.
- C. Effectiveness<sup>3</sup>: Program area OR the projected enrollment of 150 for the 2016 year in the new program area.

- 1. Labor Market Information; Employment Development Department, California; LMI for San Diego-Carlsbad MSA California, and Occupations in Demand.
- 2. Faculty knowledge of program area.
- 3. Estimate based on regressive data.

*\* This program is designed to be a basic skills set for current employment, using literacy or numeracy as foundational skill sets.*

ACTION

Adoption of a new program at Miramar College.

Proposed new program at Miramar College:

**Certificate of Performance  
Graphics-Visual Production**

<b>Courses Required for the Major:</b>	<b>Units</b>
ARTD 050 Beginning Graphics, Communicating With Computers <b>or</b>	
ARTF 150B Beginning Graphic Design.....	3
ARTD 160 Vector Art 01: Illustration .....	3
ARTD 170 Raster Art 01: Image Editing .....	3
ARTD 181 Projects 01: Multi-modal Productions .....	3
ARTG 106 Typography.....	3

**Total Units = 15**



## Associate of Arts Degree Graphics

**Courses Required for the Major:                      Units**

ARTF 150A Two-Dimensional Design.....	3
<u>ARTD 050 Beginning Graphics, Communicating With Computers or</u>	
ARTF 150B Beginning Graphic Design.....	3
ARTF 155A Freehand Drawing I.....	3
<u>ARTD 158 Survey of Graphics Technology or</u>	
<u>ARTG 118 Graphic Design History .....</u>	<u>3</u>
ARTD 160 Vector Art 01: Illustration <b>or</b>	
ARTD 160A Vector Art 01: Illustration Tools <b>and</b>	
ARTD 160B Vector Art 01: Illustration Tasks .....	3
ARTD 170 Raster Art 01: Image Editing <b>or</b>	
ARTD 170A Raster Art 01A: Image Editing Tools <b>and</b>	
ARTD 170B Raster Art 01B: Image Editing Tasks .....	3
ARTD 180 Composition 01: Page Building Tools <b>or</b>	
ARTG 126 Intermediate Digital Media.....	3
ARTD 181 Projects 01: Multi-modal productions .....	3
ARTG 106 Typography.....	3
ARTG 148A Portfolio A .....	3
ARTG 149 Studio Practices .....	3

ARTG 290 Independent Study in Graphic Design.....	1 - 3
BUSE 100 Introduction to Business .....	3
BUSE 119 Business Communications .....	3

**Total Units = ~~36~~ 33**

**Complete 6 units from the following list of  
elective courses:    Units**

ARTD 158 Survey of Graphics Technology .....	3
<u>ARTD 190 Ethical Business Practices for Creative Services .....</u>	<u>3</u>
<u>ARTD 192 Graphic Business Promotion: Creative Services Career Management.....</u>	<u>3</u>
ARTF 155B Freehand Drawing II.....	3
ARTF 198A Introduction to Printmaking I .....	3
ARTF 280D Digital Art Studio Lab .....	1
ARTG 118 Graphic Design History .....	3
ARTG 133 Intermediate Graphic Design II (Identity Systems and Packaging).....	3
ARTG 148B Portfolio B.....	3
ARTG 270 Work Experience in Graphic Design .....	1 - 4

ACTION

Adoption of two program revisions at City College.

Proposed program revisions at City College:

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

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

<b>Courses Required for the Major:</b>	<b>Units</b>
AODS 150 Introduction to Chemical Dependency .....	3
AODS 153 Chemical Dependency Family Counseling Techniques .....	3
AODS 154 Law, Ethics and Skills in Substance Abuse Counseling .....	3
SOCO 101 Principles of Sociology .....	3
PSYC 101 General Psychology .....	3
AODS 156 Chemical Dependency Case Management .....	3
AODS 157 Pharmacology of Psychoactive Drugs.....	3
<u>AODS 159 Co-Occurring Disorders in Chemical Dependency Counseling .....</u>	<u>3</u>
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 <b>or</b> AODS 270 1 Work Experience in Chemical Dependency .....	3.5-4

<sup>1</sup>AODS 270 must be substituted for AODS 163 if student has a paid internship.

**Total Units = 36.5 - 37**

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

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

<b>Courses Required for the Major:</b>	<b>Units</b>
AODS 150 Introduction to Chemical Dependency .....	3
AODS 153 Chemical Dependency Family Counseling Techniques.....	3
AODS 154 Law, Ethics and Skills in Substance Abuse Counseling .....	3
SOCO 101 Principles of Sociology .....	3
PSYC 101 General Psychology .....	3
AODS 156 Chemical Dependency Case Management .....	3
AODS 157 Pharmacology of Psychoactive Drugs .....	3
<u>AODS 159 Co-Occurring Disorders in Chemical Dependency Counseling .....</u>	<u>3</u>
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 <b>or</b> AODS 270 1 Work Experience in Chemical Dependency .....	3.5-4

<sup>1</sup>AODS 270 must be substituted for AODS 163 if student has a paid internship.

**Total Units = 36.5 - 37**

ACTION

Adoption of a program deactivation at Miramar College.

Proposed program deactivation at Miramar College:

**Certificate of Performance  
Applied Biotechnology-Analytical  
Chemistry**

**Courses Required for the Major: ———— Units**  
~~BIOL 132 Applied Biotechnology I and~~  
~~CHEM 251 Quantitative Analytical Chemistry..9~~

**Total Units = 9**

Business Administration

ACTION

Adoption of three program revisions at Miramar College.

Proposed program revisions at Miramar College:

**Certificate of Achievement  
Business Administration**

<b>Courses Required for the Major:</b>	<b>Units</b>
ACCT 116A Financial Accounting .....	4
ACCT 116B Managerial Accounting .....	4
ECON 120 Principles of Macroeconomics.....	3
ECON 121 Principles of Microeconomics .....	3

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

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

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

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

	<b>Units</b>
<u>BUSE 115 Statistics for Business.....</u>	<u>3</u>
MATH 119 Elementary Statistics.....	3
MATH 121 Basic Techniques of Applied Calculus I.....	3
MATH 150 Calculus with Analytic Geometry I.....	5

**Total Units = 26 – 29**

**Associate of Science Degree  
Business Administration**

<b>Courses Required for the Major:</b>	<b>Units</b>
ACCT 116A Financial Accounting .....	4
ACCT 116B Managerial Accounting .....	4
ECON 120 Principles of Macroeconomics .....	3
ECON 121 Principles of Microeconomics .....	3

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

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

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

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

	<b>Units</b>
<u>BUSE 115 Statistics for Business.....</u>	<u>3</u>
MATH 119 Elementary Statistics .....	3
MATH 121 Basic Techniques of Applied Calculus I.....	3
MATH 150 Calculus with Analytic Geometry I.....	5

**Total Units = 26 – 29**

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

<b>Courses Required for the Major:</b>	<b>Units</b>
BUSE 119 Business Communications.....	3
BUSE 140 Business Law and the Legal Environment.....	3
ACCT 116A Financial Accounting .....	4
ACCT 116B Managerial Accounting .....	4
CISC 181 Principles of Information Systems.....	4
ECON 120 Principles of Macroeconomics.....	3
ECON 121 Principles of Microeconomics .....	3

<b>Select at least one course from the following:</b>	<b>Units</b>
<u>BUSE 115 Statistics for Business.....</u>	<u>3</u>
MATH 119 Elementary Statistics.....	3
MATH 121 Basic Techniques of Applied Calculus I.....	3

**Total Units = 27**

## Business Management

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

Certificate of Achievement and Associate of Science Degree Entrepreneurship Program

- A. Labor Market Information<sup>1</sup>: The annual average number of persons employed in the Entrepreneurship program area was 10,300 in the 2012 employment year. Approximately 423 new job openings are projected through 2012-2022.
- B. Duplication<sup>2</sup>: City College, Cuyamaca College, and MiraCosta College.
- C. Effectiveness<sup>3</sup>: Program area OR the projected enrollment of 35 for the 2016 year in the new program area.

1. California Employment Development Department.
2. California Community Colleges Chancellor's Office, CCC Curriculum Inventory database.
3. Estimated from current student enrollment and student interest survey at feeder institutions.

ACTION

Adoption of two new programs at Miramar College.

Proposed new programs at Miramar College:

### Certificate of Achievement Entrepreneurship

<b>Courses Required for the Major:</b>	<b>Units</b>	<b>Complete at least three (3) units from the following occupational courses:</b>	<b>Units</b>
BUSE 100 Introduction to Business .....	3	BUSE 270 Business Internship / Work Experience .....	1 - 4
BUSE 101 Business Mathematics .....	3	CBTE 162 Web Page Creation.....	2
BUSE 119 Business Communications.....	3	CBTE 165 Webpage Creation with Dreamweaver .....	3
BUSE 155 Managing the Small Business .....	3	CBTE 180 Microsoft Office .....	3
BUSE 157 Developing a Plan for the Small Business .....	3	CBTE 210 Computers in Business .....	3
ACCT 150 Computer Accounting Applications .....	3	BUSE 120 Personal Financial Management .....	3
MARK 100 Principles of Marketing .....	3		
 <b>Complete at least one of the following supplemental business courses:</b>		<b>Total Units = 27 - 28</b>	
	<b>Units</b>		
BUSE 140 Business Law and the Legal Environment.....	3		
BUSE 150 Human Relations in Business.....	3		
BUSE 201 Business Organization and Management.....	3		
ACCT 102 Basic Accounting .....	3		
CISC 181 Principles of Information Systems.....	4		



**Associate of Science Degree  
Entrepreneurship**

<b>Courses Required for the Major:</b>	<b>Units</b>
BUSE 100 Introduction to Business .....	3
BUSE 101 Business Mathematics .....	3
BUSE 119 Business Communications .....	3
BUSE 155 Managing the Small Business .....	3
BUSE 157 Developing a Plan for the Small Business .....	3
ACCT 150 Computer Accounting Applications .....	3
MARK 100 Principles of Marketing .....	3

**Complete at least one of the following  
supplemental business courses:**

	<b>Units</b>
BUSE 140 Business Law and the Legal Environment .....	3
BUSE 150 Human Relations in Business .....	3
BUSE 201 Business Organization and Management .....	3
ACCT 102 Basic Accounting .....	3
CISC 181 Principles of Information Systems .....	4

**Complete at least three (3) units from the  
following occupational courses:**

	<b>Units</b>
BUSE 270 Business Internship / Work Experience .....	1 - 4
CBTE 162 Web Page Creation .....	2
CBTE 165 Webpage Creation with Dreamweaver .....	3
CBTE 180 Microsoft Office .....	3
CBTE 210 Computers in Business .....	3
BUSE 120 Personal Financial Management .....	3

**Total Units = 27 - 28**

Computer Business Technology

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

Certificate of Achievement Business Information Worker II Program

- A. Labor Market Information<sup>1</sup>: The annual average number of persons employed in the Business Information Worker II program area was 13,040 in the 2014 employment year. Approximately 15,570 new job openings are projected through 2012-2022.
- B. Duplication<sup>2</sup>: None.
- C. Effectiveness<sup>3</sup>: Program area OR the projected enrollment of 60 for the 2016-2017 year in the new program area.

- 1. California Employment Development Department Industry Employment Data., and California Employment Development Department Labor Market Information Division, Report titled "2012-2022 Occupations With the Most Openings"
- 2. 2014-15 catalogs and websites for Region 10 Community Colleges.
- 3. City College Departmental Enrollment Tallies.

ACTION

Adoption of a new program at City College.

Proposed new program at City College:

**Certificate of Achievement  
Business Information Worker II**

*The Computer Business Technology Department requires students to complete all CBTE requirements for the certificate within five years.*

<b>Courses Required for the Major:</b>	<b>Units</b>
CBTE 127 Introduction to PowerPoint.....	2
CBTE 143 Intermediate Microsoft Excel .....	3
CBTE 155 SharePoint Using Office 365.....	2
CBTE 205 Records Management <b>or</b>	
CBTE 206 Electronic Records Management.....	3
BUSE 102 Introduction to Customer Service.....	3

**Total Units = 13**

ACTION

Adoption of three program revisions at City College.

Proposed program revisions at City College:

**Certificate of Achievement  
Administrative Assistant**

*The Computer Business Technology Department requires students to complete all CBTE requirements for the certificate within five years.*

<b>Courses Required for the Major:</b>	<b>Units</b>
CBTE 094 Introduction to Computer Keyboarding <b>or</b>	
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 152 Beginning Microsoft Access .....	2
CBTE 162 Web Page Creation.....	2
CBTE 205 Records Management <b>or</b>	
CBTE 206 Electronic Records Management.....	3
CBTE 210 Computers in Business <b>or</b>	
CBTE 211 Office Administration.....	3
BUSE 101 Business Mathematics .....	3
<u>BUSE 092 Introduction to Business Communication or</u>	
BUSE 119 Business Communications.....	3

**Total Units = 27**

**Certificate of Achievement  
Administrative Office Management**

*The Computer Business Technology Department requires students to complete all CBTE requirements for the certificate within five years.*

<b>Courses Required for the Major:</b>	<b>Units</b>
CBTE 094 Introduction to Computer Keyboarding <b>or</b>	
CBTE 095 Keyboarding Skill Development .....	1
CBTE 114 Introduction to Microsoft Windows .....	1
CBTE 164 Introduction to Microsoft Outlook ...	1
CBTE 180 Microsoft Office .....	3
CBTE 205 Records Management <b>or</b>	
CBTE 206 Electronic Records Management.....	3
CBTE 210 Computers in Business <b>or</b>	
CBTE 211 Office Administration.....	3
ACCT 150 Computer Accounting Applications .....	3
BUSE 101 Business Mathematics .....	3
<u>BUSE 092 Introduction to Business Communication or</u>	
BUSE 119 Business Communications .....	3
BUSE 150 Human Relations in Business.....	3
BUSE 155 Managing the Small Business .....	3

**Total Units = 27**

**Certificate of Achievement**  
**Business Information Worker**

*The Computer Business Technology Department  
requires students to complete all CBTE  
requirements for the certificate within five years.*

**Courses Required for the Major:                      Units**

BUSE 092 Introduction to Business

Communication or

BUSE 119 Business Communications.....3

BUSE 150 Human Relations in Business .....3

CBTE 094 Introduction to 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 164 Introduction to Microsoft Outlook ... 1

CISC 150 Introduction to Computer and

Information Sciences or

CISC 181 Principles of Information

Systems .....3-4

**Total Units = 16 - 17**

## Computer and Information Science

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

### Certificate of Completion Web Server Technologies and Applications Program

- A. Labor Market Information<sup>1</sup>: The annual average number of persons employed in the Web Server Technologies and Applications program area was 17,447 in the 2013 employment year. Approximately 923 new job openings are projected through 2013-2016.
- B. Duplication<sup>2</sup>: City College, Cuyamaca College, MiraCosta College, and Southwestern College.
- C. Effectiveness<sup>3</sup>: Program area OR the projected enrollment of 80 for the 2015-2016 year in the new program area.

1. Labor Market Information, Employment Development Department, California.
2. Web, and Institution's Class Schedules and Catalogs.
3. Current Enrollment Data and Program Chair Career Technical Education, Continuing Education.

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

### Certificate of Completion Windows System Administration Program

- D. Labor Market Information<sup>4</sup>: The annual average number of persons employed in the Windows System Administration program area was 12,340 in the 2013 employment year. Approximately 1,263 new job openings are projected through 2013-2016.
- E. Duplication<sup>5</sup>: City College, Cuyamaca College, MiraCosta College, and Southwestern College.
- F. Effectiveness<sup>6</sup>: Program area OR the projected enrollment of 96 for the 2015-2016 year in the new program area.

4. California Employment Development Department.
5. California Community Colleges Chancellor's Office , CCC Curriculum Inventory database.
6. Current Enrollment Data and Program Chair Career Technical Education, Continuing Education.

### ACTION

Adoption of two new programs at Continuing Education.

Proposed new programs at Continuing Education:

**Certificate of Completion**  
**Web Server Technologies and**  
**Applications**

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

COMP 643 Linux Server Technologies  
COMP 644 Server Side Web Development

**Certificate of Completion**  
**Windows System Administration**  
**Program**

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

COMP 640 Windows Operating Systems  
COMP 642 Server Admin Fundamentals

Cosmetology

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

Certificate of Performance Nail Technician Program

- A. Labor Market Information<sup>1</sup>: The annual average number of persons employed in the Nail Technician program area was 39,000 in the 2015 employment year. Approximately 13,010 new job openings are projected through 2012-2022.
- B. Duplication<sup>2</sup>: None.
- C. Effectiveness<sup>3</sup>: Program area OR the projected enrollment of 80 for the 2016-2017 year in the new program area.

- 1. California Employment Development Department 2012-22 Occupational Employment Projections.
- 2. 2014-15 catalogs and websites for Region 10 Community Colleges.
- 3. Current City College Departmental Enrollment Tallies for Cosmetology courses.

ACTION

Adoption of a new program at City College.

Proposed new program at City College:

**Certificate of Performance  
Nail Technician**

<b>Courses Required for the Major:</b>	<b>Units</b>
COSM 085 Nail Technician I .....	5.5
COSM 086 Nail Technician II.....	5.5

**Total Units = 11**

ACTION

Adoption of three new programs at Mesa College.

Proposed new programs at Mesa College:

**Certificate of Achievement  
Choreography**

**Courses Required for the Major:           Units**  
 DANC 183 Music for Dance .....2  
 DANC 253 Choreography .....2

**Select 4 units from the following:           Units**  
 DANC 261A Dance Performance I .....2  
 DANC 261B Dance Performance II .....2  
 DANC 261C Dance Performance III .....2  
 DANC 261D Dance Performance IV .....2

**Select 2 units from the following:           Units**  
 DANC 150A Dance Making: Ballet ..... 1  
 DANC 151A Dance Making: Jazz ..... 1  
 DANC 152A Dance Making: Modern ..... 1  
 DANC 153A Dance Making: Dance Theatre ..... 1

**Select 2 units from the following:           Units**  
 DANC 271A Stage Costuming for Dance .....1 - 2  
 DANC 271B Makeup for Dance  
     Productions .....1 - 2  
 DANC 271C Lighting Design for Dance  
     Production .....1 - 2

**Select 10 units from the following:           Units**  
 DANC 110B Ballet II ..... 1.5  
 DANC 110C Ballet III ..... 1.5  
 DANC 110D Ballet IV ..... 1.5  
 DANC 115B Tap Dance II ..... 1 - 1.5  
 DANC 115C Tap Dance III ..... 1 - 1.5  
 DANC 115D Tap Dance IV ..... 1 - 1.5  
 DANC 120B Hip Hop II ..... 1.5  
 DANC 120C Hip Hop III ..... 1.5  
 DANC 120D Hip Hop IV ..... 1.5  
 DANC 135B Jazz Dance II ..... 1.5  
 DANC 135C Jazz Dance III ..... 1.5  
 DANC 135D Jazz Dance IV ..... 1.5

DANC 140B Modern Dance II ..... 1.5  
 DANC 140C Modern Dance III ..... 1.5  
 DANC 140D Modern Dance IV ..... 1.5  
 DANC 177A Dance Improvisation ..... 1 - 1.5  
 DANC 177B Dance Improvisation II ..... 1 - 1.5  
 DANC 178A Advanced Commercial Dance  
     I ..... 1.5  
 DANC 178B Advanced Commercial Dance  
     II ..... 1.5  
 DANC 179A Advanced Classical Dance I ..... 1.5  
 DANC 179B Advanced Classical Dance II ..... 1.5  
 DANC 180A Advanced Contemporary  
     Dance I ..... 1.5  
 DANC 180B Advanced Contemporary  
     Dance II ..... 1.5

**Total Units = 22**



## Certificate of Achievement Commercial Dance

Courses Required for the Major:	Units
DANC 110C Ballet III.....	1.5
DANC 110D Ballet IV .....	1.5
DANC 135C Jazz Dance III.....	1.5
DANC 135D Jazz Dance IV.....	1.5
DANC 140C Modern Dance III .....	1.5
DANC 178A Advanced Commercial Dance I.....	1.5
DANC 181 History of Dance .....	3
DRAM 103 Acting for Non-majors.....	3
MUSI 120 Beginning Voice Class .....	2

Select one of the following courses:	Units
DANC 261A Dance Performance I.....	2
DANC 261B Dance Performance II.....	2
DANC 261C Dance Performance III.....	2
DANC 261D Dance Performance IV .....	2

Select two of the following courses:	Units
DANC 125A Latin American Dance I .....	1 - 1.5
DANC 125B Latin American Dance II .....	1 - 1.5
DANC 126A Mid-Eastern Dance I .....	0.5 - 1
DANC 126B Mid-Eastern Dance II .....	0.5 - 1
DANC 145A Ballroom Dance I .....	1 - 1.5
DANC 145B Ballroom Dance II .....	1 - 1.5

Select one of the following courses:	Units
DANC 115A Tap I.....	1 - 1.5
DANC 115B Tap Dance II.....	1 - 1.5
DANC 115C Tap Dance III.....	1 - 1.5

Select one of the following courses:	Units
DANC 120A Hip Hop I.....	1 - 1.5
DANC 120B Hip Hop II.....	1.5
DANC 120C Hip Hop III .....	1.5
DANC 120D Hip Hop IV.....	1.5

Select one of the following courses:	Units
DANC 160A Pilates - Stretch and Conditioning .....	1 - 1.5
DANC 160B Pilates - Alignment and Correctives .....	1 - 1.5

**Total Units = 23 - 26.5**

## Associate of Arts Degree Dance

Courses Required for the Major:	Units
DANC 181 History of Dance .....	3
DANC 183 Music for Dance.....	2
DANC 253 Choreography.....	2

### Select 3 units from the following

courses:	Units
DANC 110B Ballet II.....	1.5
DANC 110C Ballet III .....	1.5
DANC 110D Ballet IV .....	1.5

### Select 3 units from the following

courses:	Units
DANC 135B Jazz Dance II .....	1.5
DANC 135C Jazz Dance III.....	1.5
DANC 135D Jazz Dance IV.....	1.5

### Select 3 units from the following

courses:	Units
DANC 140B Modern Dance II.....	1.5
DANC 140C Modern Dance III.....	1.5
DANC 140D Modern Dance IV.....	1.5

### Select 1.5 units from the following

courses:	Units
DANC 160A Pilates - Stretch and Conditioning .....	1 - 1.5
DANC 160B Pilates - Alignment and Correctives.....	1 - 1.5

### Select 1.5 units from the following

courses:	Units
DANC 177A Dance Improvisation .....	1 - 1.5
DANC 177B Dance Improvisation II.....	1 - 1.5

### Select 4 units from the following

courses:	Units
DANC 261A Dance Performance I.....	2
DANC 261B Dance Performance II.....	2
DANC 261C Dance Performance III.....	2
DANC 261D Dance Performance IV .....	2
DANC 271A Stage Costuming for Dance.....	1 - 2

Dance

DANC 271B Makeup for Dance  
Productions .....1 - 2  
DANC 271C Lighting Design for Dance  
Production.....1 - 2

**Select 3 units from the following**

<b>courses:</b>	<b>Units</b>
DANC 110A Ballet I.....	1 - 1.5
DANC 115A Tap I.....	1 - 1.5
DANC 115B Tap Dance II.....	1 - 1.5
DANC 115C Tap Dance III.....	1 - 1.5
DANC 120A Hip Hop I.....	1 - 1.5
DANC 120B Hip Hop II.....	1.5
DANC 120C Hip Hop III.....	1.5
DANC 120D Hip Hop IV.....	1.5
DANC 125A Latin American Dance I.....	1 - 1.5
DANC 125B Latin American Dance II.....	1 - 1.5
DANC 126A Mid-Eastern Dance I.....	0.5 - 1
DANC 126B Mid-Eastern Dance II.....	0.5 - 1
DANC 130A Dance Repertoire.....	1
DANC 135A Jazz Dance I.....	1 - 1.5
DANC 140A Modern Dance I.....	1 - 1.5
DANC 145A Ballroom Dance I.....	1 - 1.5
DANC 145B Ballroom Dance II.....	1 - 1.5
DANC 178A Advanced Commercial Dance I.....	1.5
DANC 178B Advanced Commercial Dance II.....	1.5
DANC 179A Advanced Classical Dance I.....	1.5
DANC 179B Advanced Classical Dance II.....	1.5
DANC 180A Advanced Contemporary Dance I.....	1.5
DANC 180B Advanced Contemporary Dance II.....	1.5

**Total Units = 26**

ACTION

Adoption of two program revisions at City College.

Proposed program revisions at City College:

**Certificate of Performance  
Advanced Electromechanical  
Technology**

<b>Courses Required for the Major:</b>	<b>Units</b>
ELDT 143 Semiconductor Devices .....	3
ELDT 143L Semiconductor Devices Laboratory.....	1.5
<u>ELDT 224 Microprocessor Design.....</u>	<u>3</u>
<u>ELDT 224L Microprocessor Design Laboratory.....</u>	<u>1.5</u>
<del>ELDT 255 Microcontrollers .....</del>	<del>3</del>
<del>ELDT 225L Microcontrollers Laboratory .....</del>	<del>1.5</del>
ENGE 152 Engineering Design.....	3

**Total Units = 12**

**Certificate of Performance  
Electromechanical Technology**

<b>Courses Required for the Major:</b>	<b>Units</b>
<del>ENGN 110 Science for Technical Applications .....</del>	<del>4</del>
ELDT 123 Introduction to Digital Circuits .....	3
ELDT 123L Digital Circuits Laboratory .....	1
ELDT 124 Basic DC Electronics.....	4
ELDT 124L Basic DC Laboratory .....	1
ENGE 151 Engineering Drawing .....	2
<u>PHYS 100 Introductory Physics <b>or</b> CHEM 100 Fundamentals of Chemistry <b>and</b> CHEM 100L Fundamentals of Chemistry Laboratory.....</u>	<u>4</u>

**Total Units = 15**

ACTION

Adoption of a program deactivation at City College.

Proposed program deactivation at City College:

**Associate of Science Degree  
Military Electronics Technology**

<b>Courses Required for the Major:</b>	<b>Units</b>
MLET 050 Basic Direct Current .....	1
MLET 051 Working With Direct Current .....	3
MLET 052A Basic Alternating Current I.....	1
MLET 053A Working With Non Resonant Alternating Current .....	2.5
MLET 052B Basic Alternating Current II.....	1
MLET 053B Working with Resonant Alternating Current .....	2
MLET 054A Basic Analog Circuits I.....	1
MLET 055A Working With Basic Analog Circuits I.....	3.5
MLET 054B Basic Analog Circuits II.....	1
MLET 055B Working With Basic Analog Circuits II.....	3.5

**Total Units = 19.5**

ACTION

Adoption of a program revision at City College.

Proposed program revision at City College:

**Certificate of Performance  
Pre-Engineering Technology**

<b>Courses Required for the Major:</b>	<b>Units</b>
<u>PHYS 100 Introductory Physics.....</u>	<u>4</u>
MATH 096 Intermediate Algebra and Geometry	
<b>or</b>	
<u>MATH 098 Technical Intermediate Algebra and Geometry .....</u>	<u>4-5</u>
TEHW 101 Introduction to Technical Writing <b>or</b>	
<u>COMS 103 Oral Communication .....</u>	<u>3</u>
<i><u>A more advanced course may be substituted for a lower level course.</u></i>	

<b>AND Select one course from:</b>	<b>Units</b>
ENGE 151 Engineering Drawing <b>or</b>	
ENGE 111 Introduction to Computer-Aided Design <b>or</b>	
<u>TECI 101 Basic Technical Illustration .....</u>	<u>3</u>
<u>MACT 150 Intro/Computer Num Control (CNC) and Elec Dis Mach .....</u>	<u>2-4</u>

**Total Units = ~~14-15~~ 13 - 16**

ACTION

Adoption of a new program at Mesa College.

Proposed new program at Mesa College:

**Certificate of Achievement  
Creative Writing**

**Courses Required for the Major:           Units**

**Select six units from the following:**

- ENGL 245A Writing Creative Nonfiction .....3
- ENGL 245B Advanced Creative Nonfiction.....3
- ENGL 247 Writing Seminar - Poetry .....3
- ENGL 247B Advanced Writing Seminar –  
Poetry.....3
- ENGL 249 Introduction to Creative Writing I ...3
- ENGL 249B Introduction to Creative Writing  
II.....3
- ENGL 252A Fundamentals of Fiction Writing ..3
- ENGL 252B Intermediate Fiction Writing .....3

**Select six units from the following:           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 240 Shakespeare .....3

**Select an additional three units from the lists  
above.**

**Total Units = 15**

ACTION

Adoption of a new program at Miramar College.

Proposed new program at Miramar College:

**Associate in Science in Nutrition  
and Dietetics for Transfer Degree**

<b>Courses Required for the Major:</b>	<b>Units</b>
NUTR 150 Nutrition.....	3
BIOL 205 General Microbiology .....	5
BIOL 230 Human Anatomy <b>or</b>	
BIOL 235 Human Physiology .....	4
CHEM 200 General Chemistry I – Lecture <b>and</b>	
CHEM 200L General Chemistry I –	
Laboratory.....	5
PSYC 101 General Psychology.....	3
PSYC 258 Behavioral Science Statistics.....	3

<b>Select one of the following courses:</b>	<b>Units</b>
NUTR 153 Cultural Foods .....	3
NUTR 155 Advanced Nutrition .....	3
BIOL 107 General Biology-Lecture and	
Laboratory.....	4
CHEM 130 Introduction to Organic and	
Biological Chemistry <b>and</b>	
CHEM 130L Introduction to Organic and	
Biological Chemistry Laboratory.....	4
CHEM 152 Introduction to General	
Chemistry <b>and</b>	
CHEM 152L Introduction to General Chemistry	
Laboratory.....	4
CHEM 201 General Chemistry II – Lecture <b>and</b>	
CHEM 201L General Chemistry II –	
Laboratory.....	5
CHEM 231 Organic Chemistry I - Lecture <b>and</b>	
CHEM 231L Organic Chemistry I –	
Laboratory.....	5
EXSC 241B Introduction to Kinesiology .....	3
MATH 116 College and Matrix Algebra.....	3
SOCO 101 Principles of Sociology .....	3

**Total Units = 26 - 28**

ACTION

Adoption of six program revisions at Miramar College.

Proposed program revisions at Miramar College:

**Certificate of Achievement**  
**Fire Company Officer Certification**

<b>Courses Required for the Major:</b>	<b>Units</b>
EMGM 105A Emergency Medical Technician - National Registry .....	7
FIPT 320A Command 1A .....	1
FIPT 320B Fire Command 1B.....	1
FIPT 320C Command 1C.....	1
FIPT 326A Training Instructor 1A: Cognitive Lesson Delivery .....	0.5
FIPT 326B Training Instructor 1B: Psychomotor Lesson Delivery .....	0.5
FIPT 327A Fire Investigation 1A: Fire Origin and Cause Determination.....	0.5
FIPT 328A Fire Management I.....	2
FIPT 330A Fire Prevention I.....	0.5
FIPT 381F Basic Firefighter 1 Academy.....	9
FIPT 323C Hazardous Materials Incident Commander.....	0.5
FIPT 324D Intermediate Wildland Fire Behavior S-290.....	0.5
FIPT 340 Company Officer 2A: Human Resource Management for Company Officers .....	0.5
FIPT 341 Company Officer 2B: General Administration Functions for Company Officers .....	0.5
FIPT 342 Company Officer 2C: Fire Investigation and Inspection for Company Officers.....	0.5
FIPT 343 Company Officer 2D: All Risk Command Operations for Company Officers .....	0.5
FIPT 344 Company Officer 2E: Wildland Incident Operations for Company Officers .....	0.5
FIPT 345 Instructor I: Instructional Methodology.....	0.5

<b>Select one of the following firefighter 1 academy options:</b>	<b>Units</b>
<u>FIPT 381S San Diego City Basic Firefighter I Academy</u> <b>or</b>	
<u>FIPT 381F Heartland Fire Training Regional Firefighter I Academy</u> <b>and</b>	
<u>FIPT 381G Firefighter I Academy Skills Review and Certification</u> .....	10.5-13

**Total Units = 23 21.5 - 24**



**Associate of Science Degree  
Fire Company Officer Certification**

<b>Courses Required for the Major:</b>	<b>Units</b>
EMGM 105A Emergency Medical Technician - National Registry .....	7
FIPT 320A Command 1A .....	1
FIPT 320B Fire Command 1B.....	1
FIPT 320C Command 1C.....	1
FIPT 326A Training Instructor 1A: Cognitive Lesson Delivery .....	0.5
FIPT 326B Training Instructor 1B: Psychomotor Lesson Delivery .....	0.5
FIPT 327A Fire Investigation 1A: Fire Origin and Cause Determination.....	0.5
FIPT 328A Fire Management I .....	2
FIPT 330A Fire Prevention I.....	0.5
FIPT 381F Basic Firefighter 1 Academy.....	9
FIPT 323C Hazardous Materials Incident Commander.....	0.5
FIPT 324D Intermediate Wildland Fire Behavior S-290.....	0.5
FIPT 340 Company Officer 2A: Human Resource Management for Company Officers .....	0.5
FIPT 341 Company Officer 2B: General Administration Functions for Company Officers .....	0.5
FIPT 342 Company Officer 2C: Fire Investigation and Inspection for Company Officers .....	0.5
FIPT 343 Company Officer 2D: All Risk Command Operations for Company Officers .....	0.5
FIPT 344 Company Officer 2E: Wildland Incident Operations for Company Officers .....	0.5
FIPT 345 Instructor I: Instructional Methodology .....	0.5

FIPT 381G Firefighter I Academy Skills Review and Certification .....10.5-13

**Total Units = ~~23~~ 21.5 - 24**

**Select one of the following firefighter 1**

**academy options:** **Units**

FIPT 381S San Diego City Basic Firefighter I Academy or

FIPT 381F Heartland Fire Training Regional Firefighter I Academy and

**Certificate of Achievement  
Fire Prevention**

<b>Courses Required for the Major:</b>	<b>Units</b>
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
<del>FIPT 327A Fire Investigation 1A: Fire Origin and Cause Determination.....</del>	<del>0.5</del>
<del>FIPT 330A Fire Prevention I.....</del>	<del>0.5</del>
<u>FIPT 342 Company Officer 2C: Fire Investigation and Inspection for Company Officers.....</u>	<u>0.5</u>
ADJU 357A 832 PC Laws of Arrest .....	1

**Total Units = ~~20~~ 19.5**

**Associate of Science Degree  
Fire Prevention**

<b>Courses Required for the Major:</b>	<b>Units</b>
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
<del>FIPT 327A Fire Investigation 1A: Fire Origin and Cause Determination.....</del>	<del>0.5</del>
<del>FIPT 330A Fire Prevention I.....</del>	<del>0.5</del>
<u>FIPT 342 Company Officer 2C: Fire Investigation and Inspection for Company Officers.....</u>	<u>0.5</u>
ADJU 357A 832 PC Laws of Arrest .....	1

**Total Units = ~~20~~ 19.5**

**Certificate of Achievement  
Fire Technology**

<b>Courses Required for the Major:</b>	<b>Units</b>
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
<del>FIPT 110 Wildland Fire Control .....</del>	<del>3</del>
<u>FIPT 110A Wildland Fire Control .....</u>	<u>2</u>
FIPT 120 Firefighter Safety and Survival .....	3
FIPT 322B Confined Space Rescue Awareness.....	0.2
FIPT 323B Haz Mat Emergency Response First Responder Operational .....	0.5
<u>FIPT 324A Basic Incident Command System (NIMS ICS 100 &amp; 200) .....</u>	<u>0.5</u>
EMGM 105A Emergency Medical Technician - National Registry .....	7

**Total Units = ~~36.2~~ 35.7**

**Associate of Science Degree  
Fire Technology**

<b>Courses Required for the Major:</b>	<b>Units</b>
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
<del>FIPT 110 Wildland Fire Control .....</del>	<del>3</del>
<u>FIPT 110A Wildland Fire Control .....</u>	<u>2</u>
FIPT 120 Firefighter Safety and Survival .....	3
FIPT 322B Confined Space Rescue Awareness.....	0.2
FIPT 323B Haz Mat Emergency Response First Responder Operational.....	0.5
<u>FIPT 324A Basic Incident Command System (NIMS ICS 100 &amp; 200).....</u>	<u>0.5</u>
EMGM 105A Emergency Medical Technician - National Registry .....	7

**Total Units = ~~36.2~~ 35.7**

ACTION

Adoption of a program revision at Mesa College.

Proposed program revision at Mesa College:

**Associate of Science Degree  
Health Information Technology**

<b>Courses Required for the Major:</b>	<b>Units</b>
HEIT 075 Computer Basics for Health Information Technology .....	1
HEIT 110 Introduction to Health Information....	4
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
<u>HEIT 160 Healthcare Reimbursement.....</u>	<u>2</u>
HEIT 205 Health Law, Accreditation and Licensing Standards .....	3
HEIT 258 Healthcare Quality Management .....	3
<del>HEIT 261 Directed Clinical Practice A.....</del>	<del>2</del>
<del>HEIT 262 Directed Clinical Practice B .....</del>	<del>2</del>
<u>HEIT 263 Directed Clinical Practice A.....</u>	<u>1</u>
<u>HEIT 264 Directed Clinical Practice B .....</u>	<u>1</u>

**Total Units = 30**

Interdisciplinary Studies

ACTION

Adoption of a program revision at Miramar College.

Proposed program revision at Miramar College:

**Associate of Science Degree  
Occupational/Technical Studies**

<b>Courses Required for the Major:</b>	<b>Units</b>
<b>Select at least one course from the following occupational courses:</b>	<b>Units</b>
ACCT 120 Federal Income Tax .....	3
ACCT 150 Computer Accounting Applications .....	3
ADJU 101 Introduction to Administration of Justice .....	3
ADJU 102 Criminal Law I .....	3
ADJU 106 Diversity and Community Relations .....	3
ADJU 140 Patrol Procedures.....	3
ADJU 160 Criminal Law II.....	3
ADJU 161 Juvenile Procedures.....	3
ADJU 162 Criminal Investigation.....	3
ADJU 167 Report Writing.....	3
ADJU 201 California Criminal Procedure .....	3
ADJU 205 Leadership Theory and Practice .....	3
ADJU 210 Rules of Evidence.....	3
BANK 102 Mortgage Brokerage and Banking...4	
BANK 104 Principles of Loan Processing .....	5
BANK 106 Loan Underwriting .....	5
BANK 108 Principles of Loan Closing .....	4
BUSE 100 Introduction to Business .....	3
BUSE 101 Business Mathematics .....	3
BUSE 119 Business Communications .....	3
BUSE 150 Human Relations in Business.....	3
BUSE 201 Business Organization and Management.....	3
LEGL 100A Introduction to Paralegalism.....	1
LEGL 100B Legal Procedures .....	2
LEGL 105 Legal Research .....	3
LEGL 110 Legal Writing & Communications ...3	
LEGL 115 Civil Litigation - Procedures .....	3
LEGL 120 Tort Law .....	3
LEGL 180 Contract Law .....	3
MARK 100 Principles of Marketing .....	3

PERG 130 Career - Life Planning .....	3
REAL 101 Real Estate Principles.....	3
REAL 105 Legal Aspects of Real Estate I .....	3
REAL 110 Principles of Real Estate Appraisal I .....	3
REAL 115 Real Estate Finance I.....	3
REAL 120 Real Estate Practice.....	3
REAL 125 Real Estate Economics .....	3
REAL 140 Real Estate Appraisal II .....	3

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

	<b>Units</b>
AVIA 101 Private Pilot Ground School .....	3
AVIA 105 Introduction to Aviation and Aerospace .....	3
AVIA 125 Aviation and Airport Management...3	
AVIA 128 Group Dynamics for High Risk Teams.....	3
AVIA 133 Human Factors in Aviation.....	3
AVIA 151 Helicopter Pilot Ground School .....	3
AVIA 228 Group Dynamics II.....	3
AVIM 101G General Aviation Technology Theory I .....	6
AVIM 101H General Aviation Technology Theory II .....	6
AVIM 102G General Aviation Maintenance Technology Practices I.....	2
AVIM 102H General Aviation Maintenance Technology Practices II .....	2
AVIM 103B Aircraft Welding and Sheetmetal Structures .....	3
AVIM 103D Aircraft Landing Gear Systems.....	3
AVIM 104B Applied Aircraft Welding and Sheetmetal Structures .....	1.5
AVIM 104D Applied Aircraft Landing Gear Systems .....	1

Interdisciplinary Studies

AVIM 105A Aircraft Cabin Atmosphere Control .....	1.5	DIES 170 Truck Drive Axles and Specifications.....	3
AVIM 106A Aircraft Cabin Atmosphere Control .....	0.5	EMGM 105A Emergency Medical Technician - National Registry .....	7
AVIM 109A Airframe Electrical Systems .....	3	EMGM 106 Emergency Medical Technician - Defibrillation/Combitude.....	0.5
AVIM 109B Powerplant Ignition Systems.....	2	FIPT 101 Fire Protection Organization .....	3
AVIM 110A Applied Airframe Electrical Systems .....	1	FIPT 102 Fire Prevention Technology .....	3
AVIM 107B Turbine Engines .....	3	FIPT 103 Fire Protection Equipment and Systems.....	3
AVIM 108B Applied Turbine Engines.....	1	FIPT 104 Building Construction for Fire Protection.....	3
AVIM 109D Aircraft Fire Protection and Digital Logic .....	1	FIPT 105 Fire Behavior and Combustion.....	3
AVIM 111C Reciprocating Engines I .....	3	FIPT 107 Fire Fighting Tactics and Strategy .....	3
AVIM 111D Reciprocating Engines II.....	3	FIPT 109 Fire Service Hydraulics .....	3
AVIM 112C Applied Reciprocating Engines I ..	2	<del>FIPT 110 Wildland Fire Control .....</del>	<del>3</del>
AVIM 112D Applied Reciprocating Engines II .	1	<u>FIPT 110A Wildland Fire Control .....</u>	<u>2</u>
AVIM 120 Basic D.C. Electronics Theory.....	3	FIPT 150A Introduction to Fire Suppression and Maintenance Manipulative Tasks (Beginning).....	1.5
AVIM 121A Applied Basic D.C. Electronics .	1.5	FIPT 160 Introduction to Open Water Lifeguarding .....	3
AVIM 249 Induction and Fuel Metering.....	3	MLTT 201 Clinical Chemistry and Urinalysis...4	
BIOL 131 Introduction to Biotechnology.....	4	MLTT 202 Clinical Hematology and Immunology.....	4
BIOL 132 Applied Biotechnology I .....	4	MLTT 203 Clinical Microbiology.....	4
BIOL 133 Applied Biotechnology II .....	4		
BIOL 134 Introduction to the Biotechnology Lab .....	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 128 Comprehensive Microsoft PowerPoint.....	3		
CBTE 140 Microsoft Excel .....	2		
CBTE 143 Intermediate Microsoft Excel .....	3		
CBTE 152 Beginning Microsoft Access .....	2		
CBTE 153 Intermediate Microsoft Access.....	3		
CBTE 162 Web Page Creation.....	2		
CBTE 165 Webpage Creation with Dreamweaver .....	3		
CBTE 170 Desktop Publishing.....	2		
CBTE 180 Microsoft Office .....	3		
DIES 100 Introduction to Diesel Technology ....	2		
DIES 121 Diesel Engines A <b>or</b>			
DIES 122 Diesel Engines B <b>or</b>			
DIES 124 Diesel Engines D .....	7		
DIES 135 Applied Failure Analysis .....	3		
DIES 144 Electronics for Diesel Technology.....	3		
DIES 160 Heavy Duty Manual Transmissions...	3		

**Total Units = 18**

ACTION

Adoption of a program revision at Mesa College.

Proposed program revision at Mesa College:

**Associate of Arts Degree  
Liberal Arts and Sciences ~~with an~~  
~~Emphasis in Arts Studies: Dance~~**

<b>Courses Required for the Major:</b>	<b>Units</b>
DANC 181 History of Dance .....	3
DANC 253 Choreography .....	2

<b>Select 6 units of technique courses</b>	<b>Units</b>
DANC 110B Ballet II.....	1.5
DANC 110C Ballet III.....	1.5
DANC 110D Ballet IV .....	1.5
DANC 120B Hip Hop II.....	1.5
DANC 120C Hip Hop III .....	1.5
DANC 120D Hip Hop IV .....	1.5
DANC 135B Jazz Dance II .....	1.5
DANC 135C Jazz Dance III .....	1.5
DANC 135D Jazz Dance IV.....	1.5
DANC 140B Modern Dance II.....	1.5
DANC 140C Modern Dance III .....	1.5
DANC 140D Modern Dance IV .....	1.5

<b>Select a minimum of 7 units</b>	<b>Units</b>
<del>DANC 111 Ethnic Dance Forms .....</del>	<del>2</del>
DANC 130A Dance Repertoire .....	1
DANC 177A Dance Improvisation .....	1 - 1.5
DANC 178A Advanced Commercial Dance	
I.....	1.5
DANC 179A Advanced Classical Dance I.....	1.5
<u>DANC 180A Advanced Contemporary Dance</u>	
<u>I.....</u>	<u>1.5</u>
DANC 261A Dance Performance I.....	2
<u>DANC 261B Dance Performance II.....</u>	<u>2</u>
<u>DANC 261C Dance Performance III.....</u>	<u>2</u>
<u>DANC 261D Dance Performance IV .....</u>	<u>2</u>
DANC 271A Stage Costuming for Dance.....	1 - 2
<u>DANC 271C Lighting Design for Dance</u>	
<u>Production.....</u>	<u>1 - 2</u>

**Total Units = 18**

ACTION

Adoption of a program revision at City College.

Proposed program revision at City College:

**Certificate of Performance  
Manufacturing Fundamentals**

<b>Courses Required for the Major:</b>	<b>Units</b>
MFET 101 Introduction to Manufacturing Engineering Technology <del>or</del> .....	3
<del>MFET 101A Introduction to Manufacturing I and MFET 101B Introduction to Manufacturing II and MFET 101C Introduction to Manufacturing III</del>	<del>3</del>
MFET 105 Print Reading and Symbology <del>or</del> .....	3
MFET 105A Print Reading I and MFET 105B Print Reading II or ENGN 130 Introduction to Engineering Design and MFET 105B Print Reading II .....	3 3.5
MFET 115 Properties of Materials .....	3
MFET 120 Manufacturing Processes .....	4

**Total Units = ~~13-14.5~~ 13**



ACTION

Adoption of a program revision at City College.

Proposed program revision at City College:

**Certificate of Performance  
Advanced Mechanical Design**

<b>Courses Required for the Major:</b>	<b>Units</b>
<del>ENGN 220 Component Design</del> .....	<del>3</del>
MFET 115 Properties of Materials.....	3
MACT 160M Introduction to CAD/CAM.....	4
<u>ENGE 152 Engineering Design.....</u>	<u>3</u>

**Total Units = 10**

ACTION

Adoption of a program revision at Miramar College.

Proposed program revision at Miramar College:

**Associate of Science Degree**  
**Music Audio Production and**  
**Engineering**

<b>Courses Required for the Major:</b>	<b>Units</b>
MUSI 108 The Business of Music .....	3
MUSI 150A Basic Musicianship .....	3
<del>MUSI 158A Music Theory I .....</del>	<del>4</del>
MUSI 190 The Electronic Music Studio .....	3
MUSI 201 Recording Arts.....	3
MUSI 202 Computer Music .....	3
<u>MUSI 204 Audio System Design and</u>	
<u>Maintenance.....</u>	<u>3</u>
MUSI 205A Projects in Electronic Music .....	3
MUSI 205B Projects in Electronic Music .....	3
<del>MUSI 268A Beginning Ear Training Laboratory</del>	
<del>I .....</del>	<del>1</del>
<b><u>Complete at least two of the following</u></b>	
<b><u>courses:</u></b>	<b>Units</b>
<u>MUSI 209A . Electronic Music Studio Internship</u>	
<u>I.....</u>	<u>1</u>
<u>MUSI 209B . Electronic Music Studio Internship</u>	
<u>II.....</u>	<u>1</u>
<u>MUSI 209C Electronic Music Studio Internship</u>	
<u>III.....</u>	<u>1</u>
<u>MUSI 209D Electronic Music Studio Internship</u>	
<u>IV.....</u>	<u>1</u>

**Total Units = 26**

ACTION

Adoption of two program revisions at Miramar College.

Proposed program revisions at Miramar College:

**Certificate of Achievement  
Paralegal**

<b>Courses Required for the Major:</b>	<b>Units</b>
LEGL 100A Introduction to Paralegalism.....	1
LEGL 100B Legal Procedures .....	2
LEGL 105 Legal Research .....	3
LEGL 110 Legal Writing & Communications ...	3
LEGL 115 Civil Litigation - Procedures .....	3
LEGL 120 Tort Law .....	3
LEGL 180 Contract Law .....	3

<u>CBTE 152 Beginning Microsoft Access .....</u>	<u>2</u>
<u>CBTE 180 Microsoft Office .....</u>	<u>3</u>
REAL 105 Legal Aspects of Real Estate I .....	3

**Total Units = 30**

**Select 12 units from the following legal**

<b>elective courses:</b>	<b>Units</b>
LEGL 106 Computer Assisted Legal Research (CALR) .....	1
LEGL 140 Law Office Management and Technology .....	3
LEGL 145 Federal Court Practices and Procedures.....	3
LEGL 150 Criminal Litigation and Procedure ...	3
LEGL 155 Employment Law .....	3
LEGL 160 Bankruptcy Law .....	3
LEGL 165 Family Law .....	3
LEGL 170 Corporate Law.....	3
LEGL 175 Estates, Trusts, and Wills .....	3
LEGL 200 Elder Law .....	3
LEGL 205 Environmental Law .....	3
LEGL 210 Immigration Law .....	3
LEGL 215 Administrative Law .....	3
LEGL 220 Intellectual Property Law .....	3
LEGL 225 Real Estate Law.....	3
LEGL 270 Paralegal Internship / Work Experience .....	1 - 4
LEGL 296 Individualized Instruction in Legal Assistant.....	0.5 - 2

**A maximum of 6 units from the following law-  
related courses may be substituted for legal  
elective courses:**

	<b>Units</b>
ACCT 116A Financial Accounting .....	4
ACCT 120 Federal Income Tax .....	3
ADJU 102 Criminal Law I .....	3
ADJU 160 Criminal Law II.....	3
ADJU 230 Constitutional Law I.....	3
BUSE 140 Business Law and the Legal Environment.....	3
<u>CBTE 127 Introduction to PowerPoint.....</u>	<u>2</u>
<u>CBTE 140 Microsoft Excel .....</u>	<u>2</u>

**Associate of Science Degree  
Paralegal**

<b>Courses Required for the Major:</b>	<b>Units</b>
LEGL 100A Introduction to Paralegalism.....	1
LEGL 100B Legal Procedures .....	2
LEGL 105 Legal Research .....	3
LEGL 110 Legal Writing & Communications ...	3
LEGL 115 Civil Litigation - Procedures .....	3
LEGL 120 Tort Law .....	3
LEGL 180 Contract Law .....	3

**Select 12 units from the following legal  
elective courses:**

	<b>Units</b>
LEGL 106 Computer Assisted Legal Research (CALR) .....	1
LEGL 140 Law Office Management and Technology .....	3
LEGL 145 Federal Court Practices and Procedures.....	3
LEGL 150 Criminal Litigation and Procedure ...	3
LEGL 155 Employment Law .....	3
LEGL 160 Bankruptcy Law .....	3
LEGL 165 Family Law .....	3
LEGL 170 Corporate Law.....	3
LEGL 175 Estates, Trusts, and Wills .....	3
LEGL 200 Elder Law .....	3
LEGL 205 Environmental Law .....	3
LEGL 210 Immigration Law .....	3
LEGL 215 Administrative Law .....	3
LEGL 220 Intellectual Property Law .....	3
LEGL 225 Real Estate Law.....	3
LEGL 270 Paralegal Internship / Work Experience .....	1 - 4
LEGL 296 Individualized Instruction in Legal Assistant.....	0.5 - 2

**A maximum of 6 units from the following law-  
related courses may be substituted for legal  
elective courses:**

	<b>Units</b>
ACCT 116A Financial Accounting .....	4
ACCT 120 Federal Income Tax .....	3
ADJU 102 Criminal Law I .....	3
ADJU 160 Criminal Law II .....	3
ADJU 230 Constitutional Law I.....	3
BUSE 140 Business Law and the Legal Environment.....	3
<u>CBTE 127 Introduction to PowerPoint.....</u>	<u>2</u>
<u>CBTE 140 Microsoft Excel .....</u>	<u>2</u>
<u>CBTE 152 Beginning Microsoft Access .....</u>	<u>2</u>
<u>CBTE 180 Microsoft Office .....</u>	<u>3</u>
REAL 105 Legal Aspects of Real Estate I .....	3

**Total Units = 30**

ACTION

Adoption of a new program at Miramar College.

Proposed new program at Miramar College:

**Associate in Science in Geology for  
Transfer Degree**

<b>Courses Required for the Major:</b>	<b>Units</b>
GEOL 100 Physical Geology .....	3
GEOL 101 Physical Geology Laboratory.....	1
GEOL 111 The Earth Through Time.....	4
CHEM 200 General Chemistry I - Lecture.....	3
CHEM 200L General Chemistry I – Laboratory.....	2
CHEM 201 General Chemistry II - Lecture .....	3
CHEM 201L General Chemistry II – Laboratory.....	2
MATH 150 Calculus with Analytic Geometry I.....	5
MATH 151 Calculus with Analytic Geometry II.....	4

**Total Units = 27**

ACTION

Adoption of two program revisions at Miramar College.

Proposed program revisions at Miramar College:

### Associate of Science Degree Earth Science Studies

<b>Courses Required for the Major:</b>	<b>Units</b>
CHEM 200 General Chemistry I – Lecture.....	3
CHEM 200L General Chemistry I – Laboratory.....	2
GEOG 100 Physical Geography .....	3
GEOG 101 Physical Geography Laboratory.....	1
PHYS 125 General Physics <del>or</del>	
PHYS 180A General Physics I <del>and</del>	
PHYS 181A General Physics Laboratory I <del>or</del>	
PHYS 195 Mechanics.....	5

**Select at least 4 units from the following: Units**  
**Select at least eight (8) units from the**  
**following physical science courses: Units**

ASTR 101 Descriptive Astronomy.....	3
ASTR 111 Astronomy Laboratory .....	1
BIOL 107 General Biology Lecture and Laboratory.....	4
BIOL 210A Introduction to the Biological Sciences I.....	4
BIOL 210B Introduction to the Biological Sciences II.....	4
AVIA 115 Aviation Weather.....	3
CHEM 111 Chemistry in Society.....	3
CHEM 152 Introduction to General Chemistry..	3
CHEM 152L Introduction to General Chemistry Laboratory.....	1
CHEM 200 General Chemistry I - Lecture.....	3
CHEM 200L General Chemistry I - Laboratory.....	2
CHEM 201 General Chemistry II - Lecture .....	3
CHEM 201L General Chemistry II – Laboratory.....	2
CHEM 231 Organic Chemistry I – Lecture .....	3
CHEM 231L Organic Chemistry I – Laboratory.....	2
CISC 186 Visual Basic Programming .....	4
CISC 190 Java Programming .....	4
COMS 103 Oral Communication .....	3
ECON 121 Principles of Microeconomics .....	3
GEOG 101 Physical Geography.....	3
GEOG 101L Physical Geography Laboratory....	1
GEOG 102 Cultural Geography .....	3
GEOG 104 Earth Science .....	3
GEOG 111 The Earth Through Time.....	4
MATH 116 College and Matrix Algebra.....	3
MATH 119 Elementary Statistics.....	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 Geometry II.....	4
PHYN 100 Survey of Physical Science.....	3
PHYN 101 Survey of Physical Science Laboratory.....	1
PHYN 120 The Oceans .....	3
PHYS 126 General Physics II .....	5
PHYS 180B General Physics II.....	4
PHYS 181B General Physics Laboratory II.....	1
PHYS 196 Electricity and Magnetism.....	5
PHYS 197 Waves, Optics and Modern Physics.....	5
PSYC 258 Behavioral Science Statistics.....	3
PHYS 125 General Physics .....	5
PHYS 180A General Physics I.....	4
PHYS 195 Mechanics .....	5

**Select at least three (3) units from the**  
**following biological science courses: Units**

ANTH 102 Introduction to Physical Anthropology .....	3
ANTH 104 Laboratory in Physical Anthropology .....	1
BIOL 100 Natural History - Environmental Biology .....	4
BIOL 107 General Biology-Lecture and Laboratory.....	4
BIOL 115 Marine Biology .....	4
BIOL 130 Human Heredity .....	3
BIOL 180 Plants and People .....	3
PSYC 260 Introduction to Physiological Psychology.....	3

**Select at least three (3) units from the**  
**following mathematics courses: Units**

MATH 104 Trigonometry .....	3
MATH 116 College and Matrix Algebra .....	3
MATH 119 Elementary Statistics <del>or</del>	
PSYC 258 Behavioral Science Statistics.....	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 Geometry II.....	4
MATH 252 Calculus with Analytic Geometry III.....	4

**Total Units = ~~18~~ 18 - 21**

## Associate of Science Degree Pre-Engineering Studies

Courses Required for the Major:	Units
CHEM 200 General Chemistry I – Lecture .....	3
PHYS 195 Mechanics .....	5
PHYS 196 Electricity and Magnetism.....	5
MATH 150 Calculus with Analytic Geometry I.....	5
MATH 151 Calculus with Analytic Geometry II .....	4

**Select at least 10 units from the following: \_\_\_\_\_ Units**

**Select at least four (4) units from the following: \_\_\_\_\_ Units**

ACCT 116A Financial Accounting .....	4
BIOL 205 General Microbiology .....	5
BIOL 210A Introduction to the Biological Sciences I.....	4
BIOL 210B Introduction to the Biological Sciences II .....	4
BIOL 215 Introduction to Zoology .....	4
BIOL 250 Introduction to Botany .....	4
BUSE 140 Business Law and the Legal Environment .....	3
CHEM 130 Introduction to Organic and Biological Chemistry .....	3
PHYS 197 Waves, Optics and Modern Physics .	5
CHEM 200 General Chemistry I - Lecture .....	3
CHEM 200L General Chemistry I – Laboratory.....	2
CHEM 201 General Chemistry II – Lecture .....	3
CHEM 201L General Chemistry II – Laboratory.....	2
CISC 190 Java Programming .....	4
CISC 192 C/C++ Programming .....	4
ECON 121 Principles of Microeconomics .....	3
GEOL 100 Physical Geology .....	3
GEOL 101 Physical Geology Laboratory .....	1
MATH 119 Elementary Statistics .....	3
MATH 151 Calculus with Analytic Geometry II .....	4
MATH 245 Discrete Mathematics .....	3
MATH 252 Calculus with Analytic Geometry III.....	4
MATH 254 Introduction to Linear Algebra .....	3
MATH 255 Differential Equations.....	3
PHYS 125 General Physics .....	5
PHYS 126 General Physics I.....	5
PHYS 195 Mechanics .....	5
PHYS 196 Electricity and Magnetism.....	5
PHYS 258 Behavioral Science Statistics.....	3

**Total Units = 18 23**

Shipbuilding Technology

ACTION

Adoption of two program deactivations at City College.

Proposed program deactivations at City College:

**Certificate of Achievement  
Shipbuilding Technology**

<b>Courses Required for the Major:</b>	<b>Units</b>
SHIP 101 Introduction to Shipbuilding Technology I.....	3
SHIP 103 Introduction to Shipbuilding Technology II.....	3
SHIP 110 Shipyard Safety and Safety Management.....	3
SHIP 115 Shipbuilding Processes <b>and</b> SHIP 115L Shipbuilding Processes Lab <b>or</b> MFET 120 <sup>+</sup> Manufacturing Processes .....	4
SHIP 201 Technological Issues: Organization and Effective Leadership in Shipbuilding .....	3
SHIP 205 Culminating Project .....	3
ELCT 111 Electrical Theory I.....	3
ELCT 111L Electrical Laboratory I .....	2
<sup>+</sup> (SHIP 115 & 115L) OR (MFET 120)	

**Total Units = 24**

**Associate of Science Degree  
Shipbuilding Technology**

<b>Courses Required for the Major:</b>	<b>Units</b>
SHIP 101 Introduction to Shipbuilding Technology I.....	3
SHIP 103 Introduction to Shipbuilding Technology II.....	3
SHIP 110 Shipyard Safety and Safety Management.....	3
SHIP 115 Shipbuilding Processes <b>and</b> SHIP 115L Shipbuilding Processes Lab <b>or</b> MFET 120 <sup>+</sup> Manufacturing Processes .....	4
SHIP 201 Technological Issues: Organization and Effective Leadership in Shipbuilding .....	3
SHIP 205 Culminating Project .....	3
ELCT 111 Electrical Theory I.....	3
ELCT 111L Electrical Laboratory I .....	2
<sup>+</sup> (SHIP 115 & 115L) OR (MFET 120)	

**Total Units = 24**



Sustainable Urban Agriculture

ACTION

Adoption of two program revisions at City College.

Proposed program revisions at City College:

**Certificate of Achievement  
Urban Farming Professional**

<b>Courses Required for the Major:</b>	<b>Units</b>
AGRI 100 Principles of Sustainable Agriculture	3
AGRI 102 Sustainable Urban Agricultural Practice .....	3
AGRI 104 Seasonal Organic Production.....	3
AGRI 108 Building Fertile Soil Organically.....	3
AGRI 110 Organic Fruit Tree Care.....	3
<del>AGRI 112 Organic Greenhouse Management and Plant Propagation.....</del>	<del>2</del>
<u>AGRI 114 Plant Propagation and Greenhouse Production.....</u>	<u>3</u>
AGRI 116 Drip Irrigation Basics.....	2
AGRI 130 Agriculture Direct Marketing Internship .....	1
AGRI 270 Work Experience in Sustainable Urban Agriculture .....	1 - 4
BUSE 157 Starting a Small Business .....	3
BUSE 119 Business Communications.....	3

**Total Units = ~~27-30~~ 28 - 31**

**Certificate of Achievement  
Urban Gardening**

<b>Courses Required for the Major:</b>	<b>Units</b>
AGRI 102 Sustainable Urban Agricultural Practice .....	3
AGRI 104 Seasonal Organic Production.....	3

**Choose 6 units from the following electives:**

	<b>Units</b>
AGRI 100 Principles of Sustainable Agriculture .....	3
AGRI 108 Building Fertile Soil Organically.....	3
AGRI 110 Organic Fruit Tree Care .....	3
<del>AGRI 112 Organic Greenhouse Management and Plant Propagation.....</del>	<del>2</del>
<u>AGRI 114 Plant Propagation and Greenhouse Production.....</u>	<u>3</u>
AGRI 116 Drip Irrigation Basics .....	2
AGRI 128 Food Preservation Skills .....	1
<del>SUST 250 Field Experience In Sustainability .....</del>	<del>1 - 3</del>

**Total Units = 12**

Visual and Performing Arts

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

Certificate of Performance Arts Entrepreneurship and Advanced Arts Entrepreneurship Program

- A. Labor Market Information<sup>1</sup>: The annual average number of persons employed in the Arts Entrepreneurship and Advanced Arts Entrepreneurship in program area was 10,300 in the 2015 employment year. Approximately 239 new job openings are projected through 2015.
- B. Duplication<sup>2</sup>: No local colleges offer a similar certificate program.
- C. Effectiveness<sup>3</sup>: Program area OR the projected enrollment of 10 for the 2016 year in the new program area.

- 1. 2012-2022 Occupational Employment Projections.
- 2. 2012-2022 Occupational Employment Projections.
- 3. The Fact Book, San Diego City College/ECC.

ACTION

Adoption of two new programs at City College.

Proposed new programs at City College:

**Certificate of Performance  
Arts Entrepreneurship**

**Courses Required for the Major: Units**  
ARTF 206 Art Entrepreneurship .....3

**Choose 3 units from the following courses:**

**Units**  
ARTF 165B Composition in Painting II..... 3  
ARTF 165C Composition in Painting III ..... 3  
ARTF 170B Contemporary Crafts II..... 3  
ARTF 175B Sculpture II ..... 3  
ARTF 175C Sculpture III ..... 3  
ARTF 195B Ceramics II ..... 3  
ARTF 195C Ceramics III ..... 3  
ARTF 207 Industrial and Architectural Ceramic Design I..... 3

**Total Units = 6**

**Certificate of Performance  
Advanced Arts Entrepreneurship**

**Courses Required for the Major: Units**  
ARTF 206 Art Entrepreneurship ..... 3  
BUSE 157 Developing a Plan for the Small Business ..... 3  
MARK 100 Principles of Marketing ..... 3

**Choose 3 units from the following courses:**

**Units**  
ARTF 165B Composition in Painting II..... 3  
ARTF 165C Composition in Painting III ..... 3  
ARTF 170B Contemporary Crafts II..... 3  
ARTF 175B Sculpture II ..... 3  
ARTF 175C Sculpture III..... 3  
ARTF 195B Ceramics II ..... 3  
ARTF 195C Ceramics III ..... 3  
ARTF 207 Industrial and Architectural Ceramic Design I..... 3  
ARTF 212 Sustainable Art and Design ..... 3

**Total Units = 12**