

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:

Fire Protection Technology

Adoption of 18 course deactivations at Miramar College. **(Attachment A)**

French

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

Mathematics

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

Apprenticeship

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

Construction Trades

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

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 18 course deactivations at City College.

Proposed course deactivations at City College:

**50 Community Emergency Response Team Training**  
**32 - 36 hours lecture, 1.5 units**  
**Letter Grade or Pass/No Pass Option**

This course provides students with the beginning skills needed to respond to community disasters when emergency services are not immediately available. Topics include disaster preparedness, fire safety, medical operations, light search and rescue, survivor trauma, and terrorist incidents. This class is intended for students who would like to prepare for natural and man-made disasters. (FT) Associate Degree Credit only and not Transferable.

**250 Structure Collapse Technician**  
**8 - 9 hours lecture, 48 - 54 hours lab, 1.5 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; Mathematics 34A with a grade of "C" or better, or equivalent or Assessment Skill Level M20. This Federal Emergency Management Agency (FEMA) Structure Collapse Technician course prepares firefighters and other rescue personnel to perform search and rescue at collapsed structure incidents. Through lecture and hands-on manipulative lessons, this class covers safety issues, structural engineering systems, interior and exterior shoring systems, moving and lifting of heavy objects, and breaking, breaching, and burning operations. (FT) Associate Degree Credit only and not Transferable.

**256 Fire Command 2D Planning for Large Scale Disasters**  
**32 - 36 hours lecture, 2 units**  
**Grade Only**

*Limitation on Enrollment:* This course is not open to students with previous credit for Fire Technology 256. Instruction in this course is designed for fire officers and others training for incident command leadership. Course involves the history, components, management principles, and operational techniques required for the implementation of a command system for large scale disasters: earthquakes, floods, and conflagrations. (FT) Associate Degree Credit & transfer to CSU.

**300A Commanding Multiple Alarms or Large Fire Suppression Forces, Fire Command 2A**  
**28 - 31.5 hours lecture, 12 - 13.5 hours lab, 2 units**  
**Grade Only**

*Prerequisite:* Fire Protection Technology 200B with a grade of "C" or better, or equivalent. This California Fire Service Training and Education System certified course prepares the fire officer to use management techniques and incident command systems when commanding multiple alarms or large fire suppression force. Topics include fire fighter safety, major incident strategical and tactical considerations, and pre-planning building surveys. (FT) Associate Degree Credit & transfer to CSU.

## Fire Protection Technology

### **300B Management of Major Hazardous Materials Incidents, Fire Command 2B**

**28 - 31.5 hours lecture, 12 - 13.5 hours lab, 2 units  
Grade Only**

*Prerequisite:* Fire Protection Technology 300A with a grade of "C" or better, or equivalent. This California Fire Service Training and Education System certified course prepares fire officers to command major hazardous-materials incidents. Students learn to recognize the warning signs, clues, risks, and potential outcomes associated with hazardous-material incidents. Key elements of the course include incident command system techniques for isolating hazardous materials, decontamination considerations, making required notifications, protecting the public, and recognizing cooperating agencies' roles and responsibilities. (FT) Associate Degree Credit & transfer to CSU.

### **300C Fire Command 2C, High Rise Fire Tactics**

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

*Prerequisite:* Fire Protection Technology 300A Fire Command 2A. This 40-hour course is for chief and company officers and covers the techniques of using a systems approach as applied to fighting fires in both small and large high rise structures and is applicable to both large and small fire departments. Topics include prefire planning, building inventory, problem identification, ventilation methods, water supply, elevators, life safety, strategy and tactics, application of the Incident Command System, and specific responsibilities of officers. Case studies and simulation are used. Upon successful completion, the student will receive a State Fire Marshal course completion certificate which applies to the Chief Officer Certification. (FT) Associate Degree Credit only and not Transferable.

### **300E Fire Command 2E, Wildland Fire Tactics**

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

This 40 hour course of instruction is for fire officers and others training for incident command leadership. This course includes: California's wildland fire problems; wildland fire safety; weather effects; wildland fuels; wildland fire behavior; initial attack methods; strategy and tactics; and air attack operations. This course involves class participation and fire simulation. (FT) Associate Degree Credit only and not Transferable.

### **303A Fire Investigation 2A, Criminal and Legal Procedures**

**16 - 18 hours lecture, 1 units  
Grade Only**

*Prerequisite:* Fire Protection Technology 203A and Fire Protection Technology 203B, each with a grade of "C" or better, or equivalent.

*Limitation on Enrollment:* This course is not open to students with previous credit for Fire Protection Technology 303C.

As part of the California Department of Forestry (CDF) State Fire Training Investigator Certification track, this course provides students with up-to-date legal procedures, information, and training. It also provides a basis for new investigators to document fire scenes, prepare written reports, and properly supply information leading to criminal complaints filed with the District Attorney. The course familiarizes new investigators with procedures for dealing with persons in custody and the legal issues surrounding search and seizure. This training prepares the investigator for the courtroom. Student teams examine and document actual fire scenes. (FT) Associate Degree Credit only and not Transferable.

**303B Fire Investigation 2B, Field Case Studies**  
**16 - 18 hours lecture, 1 units**  
**Grade Only**

*Prerequisite:* Fire Protection Technology 303A with a grade of "C" or better, or equivalent. As part of the California Department of Forestry (CDF) State Fire Investigator Certification track, this course provides participants with practical, hands-on fire investigation experience. Participants conduct victim and witness interviews, prepare written reports of victim/witness contacts, and determine a course of action to legally conclude a fire investigation. Participants also attempt to qualify as experts in determining where fires originate and how they are caused. They present qualifications after practice in front of attorneys and judges in court, and participants prepare and revise curriculum vitae. (FT) Associate Degree Credit only and not Transferable.

**310E Strike Team Leader-Engine I-334**  
**16 - 18 hours lecture, 1 units**  
**Grade Only**

This 12-16 hour course orients the participant to the basic responsibilities of an Engine Strike Team Leader. Subjects covered include the strike team concept, types of strike teams, pre-incident responsibilities, assembly and travel, incident arrival and check-in, assigned/available status, out-of-service and demobilization/release. (FT) Associate Degree Credit only and not Transferable.

**310F Division/Group Supervisor I-339**  
**16 - 18 hours lecture, 1 units**  
**Grade Only**

This course covers the aspects of the management skills necessary to fill the position of Division/Group Supervisor within the framework of the Incident Command System. The course references wildland fire tactics and strategies to exemplify management and supervision techniques, but the techniques may be utilized at other emergency incidents. (FT) Not applicable to the Associate Degree.

**310G Incident Safety Officer S-401**  
**8 - 9 hours lecture, 24 - 27 hours lab, 1 units**  
**Grade Only**

This 24 hour course delivers information needed to operate in the position of Safety Officer within the Incident Command System at a large scale incident. This course fulfills the training needs of wildland fire personnel, police, EMS, and other emergency response personnel. (FT) Associate Degree Credit only and not Transferable.

**310H Introduction to Wildland Fire Behavior Calculations S-390**  
**8 - 9 hours lecture, 0.5 units**  
**Grade Only**

*Prerequisite:* Fire Protection Technology 310A with a grade of "C" or better, or equivalent Basic Incident Command System I-200.

*Advisory:* English 48, English 49 and Mathematics 34A, each with a grade of "C" or better, or equivalent or Assessment Skill Levels R5, W5 and M20.

*Limitation on Enrollment:* Experienced personnel must meet training and experience requirements for the position as established by the NWCG Wildland Fire Qualifications Subsystem Guide 310-1 and must be Task Force/Strike Team Leader qualified.

This third course in a five-course sequence develops the concepts required in determining wildland fire behavior for safe and effective fire management operations. Students learn about local and regional fire behavior issues that are critical to wildland fire fighting. They also compare the effects of daytime solar radiation and nighttime heat losses from various sources. Topics include the effects of terrain, vegetation, clouds, and wind on relative humidity, types of inversions, and their effects on wildland fire behavior. The course also explores the relationship among general, local (convective), 20-foot, and mid-flame winds and how topography affects fuels and their availability for combustion. (FT) Associate Degree Credit only and not Transferable.

**310J Fire Operations in the Urban Interface  
S-215**

**8 - 9 hours lecture, 24 - 27 hours lab, 1 units  
Grade Only**

This is a 24-32 hour course designed to meet the training needs for initial attack incident commanders and company officers confronting wildland fire that threatens life, property, and improvements. Wildland Urban Interface is a zone where man-made improvements intermix with wildland fuels. (FT) Associate Degree Credit only and not Transferable.

**310L Leadership and Organizational  
Development SH-301**

**8 - 9 hours lecture, 24 - 27 hours lab, 1 units  
Grade Only**

This 24-hour course provides the trainee with the communication and supervision skills necessary to perform as a unit leader on a wildland fire. This course presents the selected communication and supervision techniques and concepts which apply to incident management. The student learns these skills through a pre-course assignment and classroom discussions, group activities, brainstorming, role playing, and problem solving. (FT) Associate Degree Credit only and not Transferable.

**310M Fire Suppression Tactics S-336**

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

Fire Suppression Tactics is a 32-hour course meeting the training requirements outlined in the Operations Section of the Incident Command System. This course is designed primarily to instruct experienced single resource bosses and initial attack incident commanders in the wildland fire fighting tactics necessary at the strike team leader or task force leader level. This course is also recommended for operations supervisors qualified at higher management levels who have not received training in wildfire suppression tactics. (FT) Associate Degree Credit only and not Transferable.

**310O Intermediate Wildland Fire Behavior  
S-290**

**24 - 27 hours lecture, 1.5 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 classroom-based skills course prepares prospective supervisors to undertake safe and effective fire management operations. This second course in a series continues developing fire behavior prediction knowledge and skills. Students also focus on fire environment differences and local conditions. (FT) Associate Degree Credit only and not Transferable.

**310S Operations Section Chief I-430**

**20 - 22.5 hours lecture, 12 - 13.5 hours lab, 1.5  
units  
Grade Only**

The primary purpose of this course is to provide the student with the management skills needed to perform a specific function within the Incident Command system. This course will present the selected communication and supervision techniques and concepts which apply to incident management. The student will learn these skills through a pre-course assignment and classroom discussions, group activities, brainstorming, role playing, and problem solving. The student is expected to have the appropriate tactical background and demonstrated skills before taking the class. (FT) Associate Degree Credit only and not Transferable.

ACTION

Adoption of a course deactivation at City College.

Proposed course deactivation at City College:

**280 French Reading Seminar**  
**24 - 27 hours lecture, 24 - 27 hours lab, 2 units**  
**Letter Grade or Pass/No Pass Option**

Guided reading in French literature adapted to individual interests and needs: novels, short stories, poetry, newspapers and magazines. Discussed in French by students during class.  
(FT) Associate Degree Credit & transfer to CSU.

ACTION

Adoption of a course deactivation at City College.

Proposed course deactivation at City College:

**183 Mecomtronics Calculus I**  
**48 - 54 hours lecture, 3 units**  
**Grade Only**

*Prerequisite:* Mathematics 182 with a grade of "C" or better, or equivalent.

*Advisory:* Mathematics 182. This course is intended for students enrolled in the third semester Engineering Technology/Mecomtronics program.

This course is the third semester of a four-semester sequence in applied College Algebra and Trigonometry, and Applied Technical Calculus. Students are expected to apply the mathematical problem solving techniques developed in this course in the real world situations presented and discussed in the Mecomtronics Computer Technology and technical science courses. The topics include limits, continuity, differentiation of algebraic and transcendental functions, an introduction to multivariable functions and their partial derivatives, Riemann sums, integration by substitution and by parts, separable and linear first order differential equations, applications in technology and physics, and the use of the graphing calculator to solve application problems. (FT) Associate Degree Credit & transfer to CSU. CSU General Education.

Apprenticeship

ACTION

Adoption of a program revision at City College.

Proposed program revision at City College:

**Certificate of Achievement  
Pipefitting (Construction Trades)  
Apprenticeship**

<b>Courses Required for the Major:</b>	<b>Units</b>
PLBG 305 Introduction to Plumbing I .....	3
PLBG 310 Introduction to Plumbing II.....	3
PLBG 315 Intermediate Plumbing I.....	3
PLBG 320 Intermediate Plumbing II.....	3
PLPF 325 Pipefitting I.....	3
PLPF 330 Pipefitting III .....	3
PLPF 335 Pipefitting IV .....	3
<u>PLPF 340 Pipefitting II .....</u>	<u>3</u>

**Total Units = ~~21~~ 24**

**Associate of Science Degree  
Pipefitting (Construction Trades)  
Apprenticeship**

<b>Courses Required for the Major:</b>	<b>Units</b>
PLBG 305 Introduction to Plumbing I .....	3
PLBG 310 Introduction to Plumbing II.....	3
PLBG 315 Intermediate Plumbing I.....	3
PLBG 320 Intermediate Plumbing II .....	3
PLPF 325 Pipefitting I.....	3
PLPF 330 Pipefitting III .....	3
PLPF 335 Pipefitting IV .....	3
<u>PLPF 340 Pipefitting II .....</u>	<u>3</u>

**Total Units = ~~21~~ 24**



ACTION

Adoption of a program revision at City College.

Proposed program revision at City College:

**Associate of Science Degree  
Pipefitting Trade Option (Non-  
Apprentice)**

<b>Courses Required for the Major:</b>	<b>Units</b>
PLBG 160A Introduction to Plumbing I .....	3
PLBG 160B Introduction to Plumbing II .....	3
PLBG 165A Intermediate Plumbing I .....	3
PLBG 165B Intermediate Plumbing II .....	3
PLPF 180 Pipefitting I .....	3
PLPF 185 Pipefitting III .....	3
PLPF 190 Pipefitting IV .....	3
<u>PLPF 195 Pipefitting II .....</u>	<u>3</u>

**Total Units = ~~21~~ 24**