

Course Outline of Record

Los Medanos College

2700 East Leland Road

Pittsburg CA 94565

(925) 439-2181

Course Title: Advanced Fire Academy

Subject Area/Course Number: FIRE-130

Approval Date: 4/16/08

Minor course change: 11/20/08

New Course OR Existing Course

Subject Area/Course No.: FIRE-130

Units: 19

Course Name/Title: Advanced Fire Academy

Discipline(s): Fire Technology

Pre-Requisite(s) Employment as a firefighter in a Contra Costa County Fire District or a total of 9 units from FIRE-101, 102, 103, 104, 105, or 106; satisfactory score on the Candidate Physical Agility Test (CPAT) or equivalent; meet National Fire Protection Association (NFPA) 1582 medical assessment; current Emergency Medical Technician (EMT) certification.

Co-Requisite(s):

Advisories:

Catalog Description: California State Board of Fire Services/Firefighter I approved.

Written from an academic perspective; Official Course description.)

The Advanced Firefighter I Academy prepares students for entry-level jobs in firefighting and for California State Firefighter I certification. The California State Firefighter I curriculum, guidelines and assessments are followed throughout the program. Standards of performance in written exams and skill demonstrations are established by the International Fire Service Training Association (IFSTA) and local fire agencies. This academy is approximately 16 weeks in length and uses a Monday – Friday, 40-hour per week schedule. Accredited by the Office of the California State Fire Marshal.

Schedule Description: Meets requirements of CSBFS Certified Firefighter I Training.

(Written for a student audience to inform and encourage student enrollment; Marketing Tool.)

The Advanced Firefighter I Academy prepares students for entry-level jobs in firefighting and for California State Firefighter I certification

M T W T H F 8:00am - 5:00pm

Credit Credit Degree Applicable (DA)
 Credit Non-Degree (NDA)
(If Non-Credit desired, contact Dean.)

Grading Credit/Non-Credit (CR/NC)
 Letter (LR)
 Student Choice (SC)

Repeatability 0
 1
 2
 3

Hours/Mode of Instruction: Lecture 198 Lab 442 Composition _____ Activity _____ Total Hours 640
(Weekly hours) *(Total for course)*

Meets the Following Competency/Graduation Requirement(s):

Please apply for:

Transfer to: CSU UC IGETC CAN Number _____ CAN Sequence Number _____

Course is Baccalaureate Level: Yes No

Signatures:

Department Chair _____ Date _____
Librarian _____ Date _____
Dean/Sr. Dean _____ Date _____
Curriculum Committee Chair _____ Date _____
President/Designee _____ Date _____
CCCCD Approval Date (Board or Chancellor's Office) _____ Date _____

FOR OFFICE OF INSTRUCTION ONLY. DO NOT WRITE IN THE SECTION BELOW.

Begin in Semester SU08

Catalog year 2008 /2009

Class Max: 35

Dept. Code/Name: L6002

T.O.P.s Code: 2133.50

Crossover course 1/ 2: _____

ESL Class: No

DSPS Class: No

Coop Work Exp: No

- Class Code
- A Liberal Arts & Sciences
 - B Developmental Preparatory
 - C Adult/Secondary Basic Education
 - D Personal Development/Survival
 - E For Substantially Handicapped
 - F Parenting/Family Support
 - G Community/Civic Development
 - H General and Cultural
 - I Occupational Educational

- SAM Code
- A Apprenticeship
 - B Advanced Occupational
 - C Clearly Occupational
 - D Possibly Occupational
 - E* Non-Occupational
 - F Transfer, Non-Occupational
 - *Additional criteria needed*
 - 1 One level below transfer
 - 2 Two levels below transfer
 - 3 Three levels below transfer
 - 3+ Four levels below transfer

- Remediation Level
- ES Elementary and Secondary Basic Skills
 - P Pre-collegiate Basic Skills
 - B Basic Skills
 - NBS Not Basic Skills

Course Outline of Record

Los Medanos College

2700 East Leland Road

Pittsburg CA 94565

(925) 439-2181

Course Title: Advanced Fire Academy

Subject Area/Course Number: FIRE-130

Course approved by Curriculum Committee as Baccalaureate Level: _____ Yes / No _____

Distribution: Original: Office of Instruction

Copies: Admissions Office, Department Chairperson

Rev 8-2006

Institutional Student Learning Outcomes

Implementation date: Spring 2007

The development of institutional SLOs is overseen by the Teaching and Learning Project in collaborations with the General Education Committee, the Occupational Education Committee, the Developmental Education Program, the Student Services Advisory Committee, and the faculty and staff representing the Library & Learning Support Services.

Check the institutional student learning outcomes (or category of outcomes) below that are reflected in your course:

- General Education SLOs (Recommended by GE Committee)**
At the completion of the LMC general education program, a student will:
1. Read critically and communicate effectively as a writer and speaker.
 2. Understand connections among disciplines and apply interdisciplinary approaches to problem solving.
 3. Think critically and creatively
 4. Consider the ethical implications inherent in knowledge, decision-making and action.
 5. Possess a worldview informed by diverse social, multicultural and global perspectives.
- (Each of the above student learning outcomes for the general education program has a written explanation with illustrations and examples of its application within courses, as well as specific assessment criteria. Consult the GE program information pages.)
- Occupational Education SLOs (Recommended by Occupational Education Committee)**
At the completion of the LMC occupational certificate or degree, a student will:
- Be academically prepared to **obtain an entry-level or a mid-level position** in their industry.
2. Apply **critical thinking** to research, evaluate, analyze and synthesize information.
 3. Demonstrate strong **communication skills** (written and/or oral) and **interpersonal skills** (customer service and team work).
 4. Appropriately apply **industry materials and technology**.
 5. Demonstrate the skills and knowledge necessary to take and pass **certification exams** for career **advancement** in their industry.
- (Individual certificates or degree programs in occupational education may adopt some or all of these SLOs. Please check all those that apply to this course.)
- Developmental Education SLOs (Recommended by Developmental Education Committee)**
At the completion of the LMC Developmental Education Program, a student will:
1. Demonstrate the skills necessary for the first transfer level courses in English and Math or for the English and Math competencies for the Certificate of Achievement.
 2. Think critically to construct meaning and solve problems.
 3. Read with comprehension.
 4. Communicate effectively both in writing and orally.
 5. Demonstrate the characteristics, habits, and attitudes of an effective learner.
- Student Services SLOs**
(SLOs are currently being developed)
- Library and Learning Support Services SLOs**
(SLOs are currently being developed)
- None of the Above**

Program-Level Student Learning Outcomes (PSLOs)

Course Outline of Record

Los Medanos College

2700 East Leland Road

Pittsburg CA 94565

(925) 439-2181

Course Title: Advanced Fire Academy

Subject Area/Course Number: FIRE-130

Identify the program (eg. Nursing, Engineering), major (eg. Music, Chemistry), or sequence of courses (eg. ESL) to which this course belongs. List 3-8 over-arching or broad student learning outcomes for the program, major, or course sequence that this course is designed to help students attain.

Implementation date: Spring 2007

Upon completion of this course the student will:

1. Be academically prepared to obtain an entry-level firefighter position in state, county and municipal fire departments.
2. Apply critical thinking to evaluate, analyze and synthesize general firefighting information and firefighting procedures.
3. Demonstrate communication skills (written and/or oral) as it relates to effective team work performance and maintaining systems for accurate communication in firefighting operations.
4. Appropriately apply industry materials, equipment and technology for safe firefighting.
5. Demonstrate the skills and knowledge to obtain the California State Firefighter I certification.

Course-Level Student Learning Outcomes (CSLOs): What abilities will the student have at the end of this course?

List 3-8 over-arching or broad student learning outcomes for this course. These are the course "objectives" written in terms of what the student will know or be able to do at the end of the course. Title V requires that courses for Associate Degree credit must have SLOs that "reflect critical thinking and the understanding of application of concepts determined by the curriculum to be at college level".

Relate these course-level SLOs to the program-level SLOs and/or Institutional SLOs, as appropriate.

Upon completion of this course, students will be able to:

1. Identify the roles, functions, and responsibilities of the professional firefighter.
2. Demonstrate the proficiencies needed to function in a hazardous atmosphere with the use of appropriate clothing and breathing apparatus, to safely operate manual and power driven tools, equipment, and techniques, individually and as a member of a team.
3. Demonstrate the skills, knowledge, and abilities required in routine and emergency fire fighting operations and basic rescue operations.
4. Operate, inspect, and maintain fire fighting and rescue equipment.
5. Identify indicators that determine the cause and origin of fires and to name the basic properties of fire chemistry and behavior.
6. Identify the characteristics of wildland fire behavior and demonstrate wildland firefighting skills and techniques.
7. Demonstrate the manipulative skills necessary to meet the standards established by the local fire agencies, associations and unions for the safe and efficient use of firefighting equipment and techniques.

Assessment Criteria: How will the student demonstrate these abilities?

Course Outline of Record

Los Medanos College

2700 East Leland Road

Pittsburg CA 94565

(925) 439-2181

Course Title: Advanced Fire Academy

Subject Area/Course Number: FIRE-130

Give the criteria that will be used to judge whether students have attained the course level student learning outcomes.

Implementation date: Spring 2008

CSLO 1: *Narrative and/or verbal description of the major roles and functions of firefighters.*

Three of the following must be addressed-fire department functions, duties of personnel, levels of professional organizations, organization and chain of command, rules and regulations of the agency.

CSLO 2: *Practice sessions, performance exams and competencies in apparatus and equipment operations:*

Self-contained breathing apparatus,

Ropes, knots and hitches

Extinguishers

Hose, nozzles, and appliances

Ladders

The student will demonstrate the proper use of standard evolution's with hose, ladders, ropes and knots, small tools and equipment, salvage covers and fire extinguishment techniques.

CSLO 3: *Demonstration of competency of skills in either the emergency operations and/or rescue operations*

View a video and write a report listing the emergency and/or rescue operations demonstrated on the video.

CSLO 4: *Identify the use of various fire fighting and rescue equipment and note the condition of equipment- hands on exercise to demonstrate the proper use*

CSLO 5: *The student will analyze fire scenarios of various origins and indicate the causes in an essay exam.*

The student should include his/her knowledge of fire chemistry and fire behavior of each scenario.

CSLO 6: *Illustrate by listing the tactics and strategies in wildland firefighting techniques.*

CSLO 7: *Manipulative skills demonstrated by the student must meet the standards established by the local fire agencies, associations and unions. The grading criteria:*

Each required skill operation must be completed.

Each required skill operation must be accomplished in a manner safe to all.

Each require skill operation must be accomplished as not to impede the completion of the overall operation.

The performance of the skill shall not cause damage to any equipment or materials.

Students will receive copies of the skills objective in order to know exactly what competencies and the level of competency they are expected to be able to demonstrate.

Quizzes. Exams- multiple choice/true-false

Mid-term and final written exams

Course Outline of Record

Los Medanos College

2700 East Leland Road

Pittsburg CA 94565

(925) 439-2181

Course Title: Advanced Fire Academy

Subject Area/Course Number: FIRE-130

Assessments: What instruments will be used to assess student learning outcomes? (Eg. Tests, papers, projects, assignments etc.)

For each CSLO, list the assessment instrument/s that will be used to evaluate student achievement of the knowledge and abilities described in the CSLO.

Provide one sample assessment instrument that will be used to evaluate student achievement and indicate which CSLO it is assessing.

For a degree applicable course, give an example of an essay question or a problem-solving exercise and indicate which CSLO it is assessing.

For the lecture portion of the course content as listed in the attached State Fire Training Fire Fighter I

The student will be required to perform on the written exam at a minimum of 80% accuracy

According to the information contained the Essentials of Fire Fighting, IFSTA.

For the lab portion of the skills demonstration as noted in the attached State Fire Training Fire Fighter I

As "How to..." all have standards in completing the skill according to job breakdown

CSLO 1: Written exam: Describe the function of a fire department and include responsibilities of a trained fire fighter I-

CSLO 2: Written exam and skill demonstration of the proper use of equipment; completing the various operations according to IFSTA standards and job breakdowns..

CSLO 3: Written exam and skill demonstration of fire operation in routine, emergency and rescue according to IFSTA standards and job breakdowns.

CSLO 4: Written exam and demonstration of use of equipment according to IFSTA standards and job breakdowns.

CSLO 5: Written exam:

CSLO 6: Written exam and demonstration of techniques in wild land fire behavior according to IFSTA standards

CSLO 7: Manipulative skills demonstration based on criteria according to IFSTA standards.

Method of Evaluation/Grading:

Performance in terms of stated course objectives, Title V. (LMC calls "objectives", CSLOs.)

Quizzes/Mid term	20 %
Final Written	30 %
Final Manipulative	35 %
Notebook	15 %

Course Outline of Record

Los Medanos College

2700 East Leland Road

Pittsburg CA 94565

(925) 439-2181

Course Title: Advanced Fire Academy

Subject Area/Course Number: FIRE-130

Course Content: *Provide the detailed content of the course.*

State Fire Training topics- Fire Fighter I

Fire Service Organization and Responsibility

Miscellaneous Equipment and Tools

Fire Behavior and Extinguishment Theory

Fire Fighter Safety

Self-contained Breathing Apparatus

Portable Fire Extinguishers

Ropes, Knots, and Hitches

Hose, Nozzles and Appliances

Ground Ladders

Forcible Entry

Rescue

Ventilation

Fire Control

Salvage and Overhaul

Fire Protection Water Systems

Fire Protection Systems

Fire Prevention and Investigation

Communications

Vehicle Extrication

Wildland Fire Fighting

Incident Command System

Confined Space Rescue

Hazardous Materials

Emergency Care is not included in the Academy- EMT prerequisite

Course Outline of Record

Los Medanos College

2700 East Leland Road

Pittsburg CA 94565

(925) 439-2181

Course Title: Advanced Fire Academy

Subject Area/Course Number: FIRE-130

Instructional Methods: *Check all the instructional methods that will be used in teaching this course. Keep in mind that the method of instruction and activities should relate to the CSLOs.*

- Lecture
- Lab
- Activity
- Problem-based Learning/Case Studies
- Collaborative Learning/Peer Review
- Demonstration/Modeling
- Role-Playing
- Discussion
- Computer Assisted Instruction
- Other (explain) _____

Course Outline of Record

Los Medanos College

2700 East Leland Road

Pittsburg CA 94565

(925) 439-2181

Course Title: Advanced Fire Academy

Subject Area/Course Number: FIRE-130

Textbooks: *Indicate name of text (or list of text choices), author, publisher and date of publication. For degree applicable courses, text should be **College Level**. Include sample pages and the contents page of the instructor designed module if it is the only text.*

IFSTA, Essential of Fire Fighting

Delmar Firefighter's Handbook