

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer Course X A.A. Degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: Fire 125-Fire Apparatus and Equipment

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 48

BASIC SKILLS REQUIREMENTS:

Appropriate language skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: NONE

COREQUISITE: NONE

RECOMMENDED PREPARATION: NONE

SCOPE OF COURSE:

Driving laws, driving technique, construction and operation of pumping engines, ladder truck, aerial platforms, specialized equipment, and apparatus maintenance. CSU

SPECIFIC COURSE OBJECTIVES:

Students will be able to:

1. Analyze the specific types and use of fire apparatus and equipment.
2. Discuss pump theory and hydraulic principals.
3. Interpret the various laws that pertain to the operation of fire apparatus.
4. Identify the maintenance needs of all types of fire apparatus.
5. Identify the use of the many types of fire equipment used in conjunction with fire apparatus.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Fire Apparatus-General
 - A. Current apparatus types
 - B. Apparatus design

- C. Trends in fire apparatus for the future
- II. Pumping Apparatus
 - A. Pump theory
 - B. Pump design
 - C. Pump accessories
 - D. Pump testing
 - E. Water supply problems
- III. Aerial Apparatus
 - A. Types of aerial apparatus
 - B. Design and construction of aerial apparatus
 - C. Operating principals of aerial apparatus
 - D. Safety factors with aerial apparatus
 - E. Maintenance of aerial apparatus
- IV. Apparatus Operation
 - A. Driver responsibilities while operating fire apparatus
 - B. Regulations and laws that pertain to fire apparatus operation
 - C. Safety considerations during the operation of fire apparatus
- V. Specialized Equipment
 - A. Miscellaneous types of fire apparatus
 - B. Fire Hose, nozzles, and fittings
 - C. Miscellaneous types of fire equipment

REQUIRED READING:

International Fire Service Training Association. Fire Department Pumping Apparatus. 7th edition. Stillwater, OK: IFSTA, 1989.

SUGGESTED READING:

N/A

REQUIRED WRITING:

Students will be required to write a 4-6 page typewritten research paper on subject matter assigned by the instructor.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

The student is expected to read the required and recommended texts and prepare for all examinations.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination

_____ directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes _____ No X

If yes, check all that apply:

- _____ Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- _____ Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- _____ Two-Way Video Conferencing (Two-way interactive video and audio)
- _____ One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- _____ Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

- 20% Class Project (case studies)
- 20% Simulations
- 30% Quizzes
- 30% Final Exam

Note: A minimum score of 70% on the final examination is required to be certified as a Fire Officer I by the State Board of Fire Services.

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes _____ No X Number of times course may be taken for credit: None

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

CONTACT PERSON:

Brett Van Wey*1703

SIGNATURES:

SIGNATURES ON FILE