

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Fire Technology</u>
COURSE RUBRIC AND NUMBER	<u>FIRT 1338</u>
COURSE TITLE	<u>Fire Protection Systems</u>
COURSE CREDIT HOURS	<u>3 3 : 0</u> Credits Lec Lab

I. Catalog Description

Studies the design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. This course meets Fire and Emergency Services Higher Education (FESHE) Model Curriculum core requirements. (3:0).

II. Course Objectives

Upon successful completion of the course the student will be able to:

- A. Describe theories of combustion, components of the combustion process, and the mechanisms of extinguishment relative to each component.
- B. Identify the types of extinguishing agents and describe the advantages and disadvantages of each type in relation to the extinguishment of Class A, B, C, and D fires.
- C. Identify the National Fire Protection Association's Standards for fire protection and detection systems.
- D. Identify the appropriate fire protection/detection system for the various types of occupancies.
- E. Identify the types of fire protection and detection systems and the components and appropriate application of each type of system.
- F. Describe operating principles, inspection practices, and fireground operational considerations relative to each type of fire protection system.
- G. Describe appropriate methods of operation and techniques of attack for effective utilization of a variety of agents in the control and extinguishment of fire using portable fire extinguishers.
- H. Identify the types of specialized extinguishing systems and the components and appropriate application of each type of system.
- I. Describe operating principles, inspection practices, and fireground operational considerations relative to each type of specialized extinguishing system.
- J. Identify the types of detection and signaling systems and the components and appropriate application of each type of system.
- K. Describe operating principles, inspection practices, and fireground operational considerations relative to each type of detection and signaling system.
- L. Evaluate a given occupancy and determine the appropriate codes and standards that would apply to fire protection systems in that occupancy.
- M. Develop a pre-fire plan for a given occupancy and determine types of fire protection systems that exist in the building and how and when they should be used on the fireground.
- N. Utilizing a format provided by the instructor, perform a building survey, providing the information necessary to complete the pre-fire plan.
- O. Prepare a written report and make a class presentation based on the findings of a pre-fire plan survey.

III. THECB Learning Outcomes (WECM)

1. Identify fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers.
2. Identify the applications of fire detection, alarm, and extinguishing systems.
3. Explain the operation of fire detection, alarm and extinguishing systems.

IV. Evaluation

Attendance Policy: Students absent for two or more class periods without a valid excuse as determined by the instructor may be dropped from the course. Any exam or assignment not completed as a result of an unexcused absence will receive a grade of "0" for that exam or assignment.

Students who do not attend class before or on the census date listed in the Credit Course Schedule and the Course Calendar and have not contacted the instructor with a valid excuse will be dropped from the course.

Tardiness Policy: Students must be seated and ready to begin class at the scheduled time. Students tardy for two or more class periods without a valid excuse as determined by the instructor may be dropped from the course.

Expect class to last the entire scheduled time. Students may not leave class early without a valid excuse or without having made arrangements with the instructor. Students doing so will be considered absent for that class period.

Withdrawal Policy: Students who desire to withdraw are responsible for initiating withdrawal action through the EPCC Registrar's Office according to the policy in the Credit Class Schedule. **After the drop date listed in the Credit Class Schedule and the Course Calendar, students will receive a grade based upon all required items. Items not completed will be given a grade of "0".**

Students requesting an Incomplete, "I", must comply with EPCC policies and procedures listed in the Credit Class Schedule.

Cheating Policy: Students determined to be cheating on an exam or plagiarizing another student's assignment will be given a grade of "0" for that exam or assignment. An incident report documenting the circumstances will be prepared by the Instructor and submitted to the Instructional Coordinator of Fire Technology and then forwarded to the Instructional Dean Occupational Education. A copy of the report will be provided to the student. A second such incident will be grounds for dismissal of the student from the course with a grade of "F".

Grading Scale

- A: 90 - 100
- B: 80 - 89
- C: 75 - 79
- D: 70 - 74
- F: 0 - 69

V. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.