

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Fire Technology</u>
COURSE RUBRIC AND NUMBER	<u>FIRT 1327</u>
COURSE TITLE	<u>Building Construction in the Fire Service</u>
COURSE CREDIT HOURS	<u>3 3 : 0</u>
	Credits Lec Lab

I. Catalog Description

Explores the components of building construction that relate to fire and life safety. Focuses on firefighter safety. Includes relationship of elements of construction and design of structures to inspecting buildings, preplanning fire operations, and operating at emergencies. **(3:0)**.

II. Course Objectives

- A. Describe basic principles of construction, including types of loads on buildings and building fire loads, and fire behavior characteristics and levels of fire resistance of building materials, interior finishes, and structural elements of buildings.
- B. Identify and describe types of construction and classification of occupancies.
- C. Identify and describe structural elements and their fire behavior characteristics and hazards with particular emphasis upon trusses and collapse potential.
- D. Identify and describe structural and fire behavior characteristics, inherent fire problems, hazards associated with construction practices, collapse potentials and recognition of signs of structural collapse, and associated fire fighting practices of wood and ordinary construction; garden apartments; steel, concrete, high-rise, and truss construction; and warehouses and rack storage systems.
- E. Describe principles of fire resistance, fire resistance standards and testing, impact of building fire loads to fire resistance, including combustibility in relation to fire resistance and fire intensity in relation to duration.
- F. Describe fire behavior characteristics of smoke and gases and various smoke and containment practices.
- G. Analyze fire incidents and identify and describe factors contributing to fire growth and their influence on the structure and explain the effects of structural characteristics and their influence on the fire or building collapse.

III. THECB Learning Outcomes (WECM)

- 1. Identify types of building construction and fire resistance levels of building materials.
- 2. Describe hazards associated with construction practices.
- 3. Identify signs of potential structural collapse.

IV. Evaluation

Attendance Policy: Students absent for two 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 (American 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.