



El Camino College
COURSE OUTLINE OF RECORD – Approved

I. GENERAL COURSE INFORMATION

Subject and Number: Fire and Emergency Technology 110B
Descriptive Title: Fire Inspector II
Course Disciplines: Fire Technology
Division: Industry and Technology

Catalog Description:

This course provides students with a basic knowledge of fire and life safety aspects related to the roles and responsibilities of a Fire Inspector 1, including building construction, occupancy classifications, occupant load, means of egress, hazardous conditions, fire growth potential, fire flow, and emergency planning and preparedness measures. The student who completes this course will be awarded a Certificate from the Office of the California State Fire Marshal.

Conditions of Enrollment:

Recommended Preparation: Fire and Emergency Technology 1

Course Length:	X Full Term	Other (Specify number of weeks):
Hours Lecture:	1.5 hours per week	TBA
Hours Laboratory:	0 hours per week	TBA
Course Units:	1.5	

Grading Method: Letter
Credit Status: Associate Degree Credit

Transfer CSU: X Effective Date: 07/15/2019
Transfer UC:

General Education:

El Camino College:

CSU GE:

IGETC:

II. OUTCOMES AND OBJECTIVES

A. COURSE STUDENT LEARNING OUTCOMES (The course student learning outcomes are listed below, along with a representative assessment method for each. Student learning outcomes are not subject to review, revision or approval by the College Curriculum Committee)

Given lecture and related instructional material, the student will:

1. Compare Type I and Type II building construction features.
2. Examine the egress requirements for a fourteen (14) story hotel.
3. Analyze an evacuation plan for a hospital, and determine the hazards.

The above SLOs were the most recent available SLOs at the time of course review. For the most current SLO statements, visit the El Camino College SLO webpage at <http://www.elcamino.edu/academics/slo/>.

B. Course Student Learning Objectives (The major learning objective for students enrolled in this course are listed below, along with a representative assessment method for each)

1. Compare and contrast the five (5) types of building construction.
 - Essay exams
2. Evaluate the hazards that may develop in structures of masonry construction.
 - Objective Exams
3. Describe occupancy classification types.
 - Essay exams
4. Assess the egress requirements in an R1 occupancy.
 - Objective Exams
5. Examine the impact of water flow testing as it relates to discharge requirements under the National Pollution Discharge Elimination System.
 - Essay exams
6. Analyze the evacuation plans for I occupancies, and determine the hazards.
 - Essay exams

III. OUTLINE OF SUBJECT MATTER (Topics are detailed enough to enable a qualified instructor to determine the major areas that should be covered as well as ensure consistency from instructor to instructor and semester to semester.)

Lecture or Lab	Approximate Hours	Topic Number	Major Topic
Lecture	6	I	I. Building Construction A. Type I (A and B) B. Type II (A and B) C. Type III (A and B) D. Type IV E. Type V F. Fire resistive components
Lecture	3	II	II. Occupancy Classifications A. A occupancies B. B occupancies C. H occupancies D. I occupancies E. R occupancies
Lecture	6	III	III. Means of Egress A. Doors B. Windows C. Hardware D. Corridors E. Stairs F. Ramps
Lecture	4	IV	IV. Basic Fire Behavior A. Fire triangle B. Ignition sources C. Fire prevention measures D. Hazard assessment
Lecture	4	V	V. Fire Flow Requirements A. Types of water distribution systems B. Public versus private water supply systems C. Testing procedures D. Calculating fire flow
Lecture	4	VI	VI. Emergency Planning and Preparedness Measures A. Occupancies requiring an evacuation plan B. Elements of an evacuation plan C. Emergency evacuation drills D. Required reports
Total Lecture Hours		27	
Total Laboratory Hours		0	
Total Hours		27	

IV. PRIMARY METHOD OF EVALUATION AND SAMPLE ASSIGNMENTS

A. PRIMARY METHOD OF EVALUATION:

Problem solving demonstrations (computational or non-computational)

B. TYPICAL ASSIGNMENT USING PRIMARY METHOD OF EVALUATION:

Discuss the hazards associated with masonry construction. Prepare a one to two-page report outlining your findings and submit to the instructor.

C. COLLEGE-LEVEL CRITICAL THINKING ASSIGNMENTS:

1. Compute the fire flow requirements for a 50,000 square foot super market of Type II construction. Report computations on a one-page report and submit to the instructor.
2. Prepare a two-page emergency evacuation plan for a 500-seat auditorium and submit to the instructor.

D. OTHER TYPICAL ASSESSMENT AND EVALUATION METHODS:

Essay exams
Performance exams
Objective Exams
Multiple Choice

V. INSTRUCTIONAL METHODS

Discussion
Internet Presentation/Resources
Lecture
Multimedia presentations

Note: In compliance with Board Policies 1600 and 3410, Title 5 California Code of Regulations, the Rehabilitation Act of 1973, and Sections 504 and 508 of the Americans with Disabilities Act, instruction delivery shall provide access, full inclusion, and effective communication for students with disabilities.

VI. WORK OUTSIDE OF CLASS

Study
Answer questions
Required reading
Written work

Estimated Independent Study Hours per Week: 3

VII. TEXTS AND MATERIALS

A. UP-TO-DATE REPRESENTATIVE TEXTBOOKS

Brett Lacey and Paul Valentine. Fire Prevention Applications. 3rd ed. Fire Protection Publications, Oklahoma State University, 2016

B. ALTERNATIVE TEXTBOOKS

C. REQUIRED SUPPLEMENTARY READINGS

D. OTHER REQUIRED MATERIALS

VIII. CONDITIONS OF ENROLLMENT

A. Requisites (Course and Non-Course Prerequisites and Corequisites)

Requisites	Category and Justification
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B. Requisite Skills

Requisite Skills

C. Recommended Preparations (Course and Non-Course)

Recommended Preparation	Category and Justification
Course Recommended Preparation Fire and Emergency Technology-1	

D. Recommended Skills

Recommended Skills
The student should have a basic understanding of fire inspection practices. FTEC 1 - Identify the various codes, standards, ordinances, and regulations that affect fire protection.

E. Enrollment Limitations

Enrollment Limitations and Category	Enrollment Limitations Impact
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Course created by Junius Murray on 09/01/1993.

BOARD APPROVAL DATE: 02/22/1994

LAST BOARD APPROVAL DATE: 07/15/2019

Last Reviewed and/or Revised by JEFF BAUMUNK on 05/02/2019