

FT-3

COURSE SYLLABUS

Course Title:	FT-3 Fire Protection Equipment and Systems
Instructor:	Norcliff Wiley, Deputy Fire Chief--Retired Salinas Fire Department
Unit Credits:	3 Semester Units
Transfer Credit:	CSU
Description:	Provides the firefighter or fire protection technology major with a fundamental knowledge of the fire protection detection equipment and suppression systems, such as; fire sprinklers, fire alarms, special agents, water supply systems.

STUDENT LEARNING OUTCOMES

Students will be able to:

1. Analyze and determine water supply requirements for an area based upon anticipated population and building size and construction.
2. Compare and contrast fire protection systems and operating requirements.
3. Interpret design and installation requirements for water supply.

Textbook

The required text for the course is Jones & Bartlett Learning's **Fire Protection Systems, Third Edition** by **A. Maurice Jones Jr.** Obtainable through the Cabrillo College Bookstore as well as other textbook outlets and online sources.

METHODS OF INSTRUCTION (ONLINE):

- **Reading** appropriate Chapter in Textbook.
- **Reviewing** PowerPoint Presentation for each session.
- **Completing** Textbook Chapter Review Questions.
- **Select and Post** a Response to one Textbook Chapter Review Question each week.
- **Complete & Submit** online quiz for each weekly session.

Field trip Assignments

Independent student "field trips" to view the various fire protection systems with submittal of a photograph of the viewed system through canvas.

EVALUATION:

Students' grade will be based on required Assignments, Quizzes & Exams, including:

1. **Weekly Discussion Topic Responses**
2. **Completion of the Weekly Quizzes.**
3. **Term Paper**
4. **Midterm and Final Examination**

HARDWARE AND SOFTWARE REQUIREMENTS:

You will need regular access to a computer and one of the following browsers:

- Google Chrome
- Mozilla Firefox
- Safari
- Brave

As well the free software from: <http://www.adobe.com/products/acrobat/readstep2.html>

- Adobe Reader

QUIZZES and EXAMS

Quizzes will be given each week during the semester and are designed to cover the important points from the reading assignments. There are 13 graded Quizzes that cover Chapters 1-13 in the textbook. There will be 20 questions for each chapter quiz. The Midterm and the Final Exam will be 50 questions each and will be questions pooled from the previous Quizzes. The Final Exam will cover only the material presented after the Midterm.

ASSIGNMENTS

Assignments are in the form of graded Weekly Discussion Topic Responses. Posting a response to Weekly Discussion Topics is mandatory and counts as one's attendance in class each week, no matter what else may have been submitted for that week.

There will also be a graded Short-Term Paper as a required Assignment for the course.

GRADING PROCEDURES

Midterm Exam	25%	250 Points
Final Exam	25%	250 Points
Quizzes	25%	250 Points
Discussions	15%	150 Points
Term Paper	10%	100 Points

Total: 100% 1,000 Points

GRADING SCALE

90 -100%	900+ Points	A
80 - 89%	800+ Points	B
70 - 79%	700+ Points	C
60 - 69 %	600+ Points	D
Below 60%		F

ATTENDANCE REQUIREMENTS

Students must not fail to post a response to more than **Three (3) Weekly Discussion Topics** during the semester. Posting a response to a Weekly Discussion Topic is what counts as **your attendance** for that week's session. Students will be dropped from the roll sheet after four recorded absences. In other words, if you fail to post a response to a Weekly Discussion Topic four times you will be dropped from the course no matter what else you may have posted online on those weeks.

SPECIAL NEEDS

Students needing accommodations should contact the instructor ASAP. As required by the Americans with Disabilities Act (ADA), accommodations are provided to ensure equal opportunity for students with verified disabilities. If you need assistance with an accommodation, please contact Disabled Student Services, Room 810, 479-6379, or Learning Skills Program, Room 1073, 479-6220.

ACADEMIC INTEGRITY AND ACADEMIC DISHONESTY POLICY

Academic misconduct includes cheating, plagiarism, falsification of records, unauthorized possession of examinations, intimidation, and any and all other actions that may improperly affect the evaluation of a student's academic performance or achievement; assisting others in any such act; or attempts to engage in such acts. Any incident of academic misconduct will result in the student being dropped from the course.

Academic integrity means doing academic work in a manner that strives to achieve the learning objectives your courses have set for you. It means following the rules and procedures prescribed by your instructors so that you acquire the skills and knowledge your courses are designed to give you. It means that you engage in ethical practices in taking tests and doing assignments and that you respect intellectual property rights by fully disclosing sources of information that appear in any assigned papers and presentations. All aspects of the Cabrillo Student Rights and Responsibilities Handbook will be fully enforced in this course. If you do not have a copy, it may be obtained online at:

[https://go.boarddocs.com/ca/cabrillo/Board.nsf/files/B8ANTQ598C68/\\$file/SRRHandbook2018.pdf](https://go.boarddocs.com/ca/cabrillo/Board.nsf/files/B8ANTQ598C68/$file/SRRHandbook2018.pdf)

COURSE SCHEDULE (OUTLINE)

<u>DATE</u>	<u>Week#</u>	<u>Chapter</u>	<u>Topics</u>
1/29/24	1		Orientation and Introduction
		1	BASICS OF FIRE BEHAVIOR
2/05/24	2	2	FIRE PROTECTION SYSTEMS and the MODEL CODE PROCESS
2/12/24	3	3	FIRE ALARM SYSTEM COMPONENTS and FUNCTIONS
2/19/24	4	4	TYPES of FIRE ALARM and DETECTION SYSTEMS
2/26/24	5	5	WATER SUPPLIES for FIRE PROTECTION SYSTEMS
3/04/24	6	6	STANDPIPE and HOSE SYSTEMS
3/11/24	7	7	AUTOMATIC FIRE SPRINKLER SYSTEMS
3/18-25/24	8		MIDTERM EXAM
3/25-30/24			SPRING BREAK! – No Class!
4/01/24	9	8	SPECIALIZED WATER-BASED FIRE PROTECTION SYSTEMS
4/08/24	10	9	FIXED WET and DRY CHEMICAL EXTINGUISHING SYSTEMS
4/15/24	11	10	GASEOUS AGENT EXTINGUISHING SYSTEMS
4/22/24	12	11	PORTABLE FIRE EXTINGUISHERS
4/29/24	13	12	SMOKE CONTROL and MANAGEMENT SYSTEMS
5/06/24	14	13	PROPERTY SECURITY, EMERGENCY RESPONSE and FIRE PROTECTION SYSTEMS
5/13/24	15		SHORT TERM PAPER SUBMISSION
5/20-25/24	16		FINAL EXAM