

**IMPERIAL VALLEY COLLEGE**  
**FALL SEMESTER - 2013**  
**FIRE PREVENTION TECHNOLOGY**  
**FIRE TECHNOLOGY (FT-101)**  
**CRN 10964**

**Instructor(s): R. Malek      Phone – 760 355-1191 Ext.115**

**Email: robert.malek@imperial.edu**

**Day: Thursday 1730-2040hrs**

**On Campus**

**Room: 2137**

**Text and Supplies:**

The following text and supplies are required for this course:

**IFSTA - Fire Inspection and Code Enforcement (7th edition)**  
**Scantrons and #2 pencils**

**Course Goals**

This course is a general introduction to the study of fire science. This course examines the history and growth of the fire service from its beginning to modern day firefighting. Students will cover the life safety code (NFPA-101), fire protection systems, firefighter safety and survival, along with identifying and analyzing the fire problems we face in the fire service today. This course will also cover what fire is, the chemical hazards of combustion and related by-products of fire. Fire department organization, administration, operations, and basic firefighting strategies and tactics, as well as community fire prevention strategies, will be covered.

**Course Objectives**

Student will demonstrate a working knowledge of:

1. Discuss the history of fire service.
2. Identify various careers in fire technology.
3. Describe organizational structures of fire protection service.
4. Discuss uses and describe construction of the different types of fire department equipment.
5. Describe practices of municipal fire defense maintenance
6. Describe practices of private fire protection.
7. In a classroom environment, describe fire tactics and strategy.
8. Identify different types of firefighting apparatus.
9. Describe the major differences between volunteer and career fire service.
10. Analyze and discuss the fire tetrahedron and its impact on the life safety code.
11. Describe features and requirements of automatic fire protection systems.
12. Describe features and characteristics of fire protection clothing.

## **Student Learning Outcomes:**

**Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:**

- 1. Demonstrate knowledge in the spectrum of fire prevention functions and philosophies and their relationships to fire suppression efforts. (ILO2)**
- 2. Identify the laws, rules, codes, and other regulations relevant to fire prevention and the agencies or authority having jurisdiction. (ILO2)**
- 3. Execute a plan review, apply fire codes and related regulations, and describe the need and process of fire investigation. (ILO3)**
- 4. Define the national fire problem including causes, damages, and public and firefighter fatalities. (ILO2, ILO3)**
- 5. Identify the responsibilities and functions of the fire prevention bureau in relationship to the fire department organizational structure. (ILO2)**
- 6. Identify the minimum professional qualifications at the state and national level for Fire Inspector, Fire Investigator, and Public Educator. (ILO2)**
- 7. Design a fire prevention media campaign including brochures, advertising, public service announcements and fire prevention collateral materials for adults and children. (ILO2, ILO3, ILO4)**

## CLASS SCHEDULE

<u>Date/Time:</u>	<u>Subject/Assignments</u>
<b>Aug 22rd</b> 1730 – 2040	<b><i>Lecture:</i></b> Orientation and Fire Technology Curriculum; Chapter 1 <b><i>Assignment:</i></b> Read Chapter 1 and Chapter 2
<b>Aug 29th</b> 1730 – 2040	<b><i>Lecture:</i></b> Chapter 2 / Review for test <b><i>Assignment:</i></b> Read Chapter 3
<b>Sept. 5th</b> 1730 – 2040	<b><i>Quiz #1- Chapters 1 &amp; 2</i></b> <b><i>Lecture:</i></b> Chapter 3 <b><i>Assignment:</i></b> Project discussion
<b>Sept 12th</b> 1730 – 2040	<b><i>Lecture:</i></b> Chapter 3 <b><i>Assignment:</i></b> Read Chapter 4
<b>Sept 19th</b> 1730 – 2040	<b><i>Lecture:</i></b> Chapter 4 <b><i>Assignment:</i></b> Read Chapter 5
<b>Sept 26th</b> 1730 – 2040	<b><i>Lecture:</i></b> Chapter 5 / Review for test <b><i>Assignment:</i></b> Read Chapter 6
<b>Oct 3th</b> 1730 – 2040	<b><i>Project #1 due &amp; Quiz #2 – Chapter 3, 4 &amp; 5</i></b> <b><i>Lecture:</i></b> Chapter 6 <b><i>Assignment:</i></b> <i>Bring topics for project in for discussion</i>
<b>Oct 10th</b> 1730 – 2040	<b><i>Field Trip:</i></b> Library Tour <b><i>Project #2 – Pick topic for Project</i></b> <b><i>Assignment:</i></b> Read Chapter 7
<b>Oct 17th</b> 1730 – 2040	<b><i>Lecture:</i></b> Chapter 7 <b><i>Assignment:</i></b> Read Chapter 8
<b>Oct 24th</b> 1730 – 2040	<b><i>Lecture:</i></b> Chapter 8 / Review for test <b><i>Assignment:</i></b> Read Chapter 9
<b>Oct 31<sup>st</sup></b> 1730 – 2040	<b><i>Quiz #3 – Chapters 6, 7 &amp; 8</i></b> <b><i>Lecture:</i></b> Chapter 9 <b><i>Assignment:</i></b> Read Chapter 10 “Fire Department Organization and Management”
<b>Nov 7th</b> 1730 – 2040	<b><i>Lecture:</i></b> Chapter 10 “Fire Department Organization and Management” <b><i>Assignment:</i></b> Complete Project #2 to submit on Nov 15th.
<b>Nov 14th</b> 1730 – 2040	<b><i>Project #2 Due &amp; Quiz #4 – Chapters 9 &amp; 10</i></b> <b><i>Lecture:</i></b> Review/ Read Ch. 11&12
<b>Nov 21<sup>st</sup></b>	<b>Lecture Ch. 11&amp;12</b>

Nov. 28<sup>th</sup>     *Exercise # 1 & #2*

Dec 5th        **Final Exam**

---

## **EVALUATION**

There will be four (4) quizzes; each worth 100 points

Final Exam; worth 200 Points

There will be two written assignments; each worth 100 points.

There are a total of 800 points available.

---

## **GRADING SYSTEM**

### **Points = Letter grade**

720 - 800 = A - Superior

640 - 719 = B - Better than average

560 - 639 = C - Average

480 - 559 = D - Below average

Below 479 = F – Failing

An overall grade point average of 2.0 (C) or higher must be earned in all work undertaken.

---

## **CLASS POLICIES**

⇒ Extra credit work will not be accepted.

⇒ Missed tests may be made up at the convenience of the instructor.

⇒ The policy on attendance at IVC is as follows:

Regular attendance in all classes is expected of all students enrolled. Instructors are expected to take a student's attendance record into account in computing grades.

A student may be excluded from further attendance in a class during any semester when absences after the close of late registration have exceeded the number of class hours which the class meets per week. Further, an instructor may drop any student judged to be a disturbing element in the class. However, this course is very intensive, requiring the students' total dedication for successful completion. It will be very difficult to make up missed lessons. Perfect attendance and being at class on time is required for successful completion of the course.

A student who is tardy three times may be considered as having been absent once.

⇒ ***No eating, drinking or smoking in classrooms.***

⇒ Standards of conduct:

Students shall assume an obligation to conduct themselves in a manner compatible with the college's function as an educational institution. Students shall observe the rules and regulations of the College. Students shall refrain from conduct which interferes with the College's teaching and administration, or which unreasonably interferes with the rights of others.

All forms of harassment are contrary to basic standards of conduct between individuals and are prohibited by state and federal law and will not be tolerated.

Misconduct for which students are subject to disciplinary action (i.e. Dishonesty, such as cheating) are listed in the College's General Catalog.

⇒ If cheating or plagiarism is discovered, a student may be dropped for the course with a grade of "F".

⇒ Any student needing supportive services because of a disability contact your instructor or the Disabled Student Programs and Services program.