

## ◆ FIREFIGHTER I ACADEMY

### Certificate of Achievement

This program includes the Oxnard College Regional Fire Academy (OCRFA) – FT R170, and its two prerequisite courses, EMT R169 – Emergency Medical Technician and FT R151 – Fire Protection Organizations. The OCRFA provides the skills and knowledge needed for the entry level firefighter, career or volunteer, to perform duties safely, effectively, and competently. The seven overarching themes of the California State Fire Fighter I curriculum are: general knowledge germane to the profession, fire department communications, fireground operations, rescue operations, preparedness and maintenance, wildland suppression activities, and hazardous materials/WMD. All exams require an 80% passing grade for all academic and manipulative tests per State Fire Marshal requirements. Students are expected to obtain all required uniforms and safety equipment. State certification costs are the responsibility of the student. Field trips are required.

Admission to the OCRFA is open to all eligible students and very competitive. A point rating system is used during the cadet selection process. Explanations regarding this process can be accessed from the “Apply to the Academy” link found on the Oxnard College Fire Academy home page. Prerequisites to apply consist of a valid NREMT or California EMT Certification, successful completion of FT R151 – Introduction to Fire Protection Organizations, a Medical Clearance, and a Lung Function (Spirometry) Test. Academy applications are comprehensive and will only be accepted if complete.

REQUIRED COURSES:		UNITS
EMT R169	Emergency Medical Technician	8
FT R151	Fire Protection Organizations	3
FT R170	Firefighter I Academy	18
<b>TOTAL REQUIRED UNITS</b>		<b>29</b>

To complete the Certificate of Achievement, students must also meet requirements in scholarship and residency. Refer to Education Pathways - Earn a Certificate of Achievement section in this catalog for specific information.

### PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of the Firefighter I Academy program students will be able to:

- Define and identify the organization structure, culture, and expectations of entry level firefighting personnel.
- Demonstrate the ability to communicate effectively through a variety of methods.
- Demonstrate the knowledge and use of firefighting equipment specific to the given task.
- Demonstrate their knowledge of tactics and strategies and incident command through the selection and implementation of firefighting methods.
- Recognize and assess firefighter hazards inherent to the profession.

### COURSE DESCRIPTIONS

See also courses in *Emergency Medical Technician*

#### FT R098 – Short Courses in Fire Technology 1-10 Units

*Hours: Lecture and/or lab hours as required by unit formula*

Specialized workshops designed to update fire fighting personnel as required for in-service training requirements in specific subject matter areas. Unit credit determined by length of instruction of the workshop as defined by current credit standards; total workshop credit limited to 10 units. *Field trips may be required.*

**\* Required courses for Associate of Science Degree or Certificate of Achievement in Fire Technology. FT R151 not required for those employed in the Fire Service, although the 30-unit college requirement must be met.**

#### FT R151 – Fire Protection Organizations\* 3 Units

*Hours: 3 lecture weekly*

This course provides an introduction to fire protection and career opportunities in fire protection and related fields. Students will examine the philosophy and history of fire protection; fire loss analysis; the organization and function of public and private fire protection services; fire departments as part of local government; and the laws and regulations affecting the fire service. Fire service nomenclature, specific fire protection functions, basic fire chemistry and physics, and introduction to fire protection systems and fire strategy and tactics will also be covered. *Field trips may be required.*

*Transfer credit: CSU*

#### FT R152 – Fire Prevention Technology\* 3 Units

*Prerequisites: FT R151 or concurrent enrollment*

*Hours: 3 lecture weekly*

This course provides fundamental information regarding the history and philosophy of fire prevention and the organization and operation of a fire prevention bureau. Students will examine the use of codes, the identification and correction of fire hazards, the components of detection and suppression systems, and the relationship of fire prevention with fire safety education. *Field trips may be required.*

*Transfer credit: CSU*

#### FT R154 – Fire Behavior and Principles of Combustion\* 3 units

*Prerequisites: FT R151 or concurrent enrollment*

*Hours: 3 lecture weekly*

This course covers the theory of how fires start, spread, and are controlled; the fundamentals of fire behavior in an open and closed environment; an in-depth study of fire chemistry and physics; burn characteristics of materials; and techniques for controlling fires through the use of a variety of proven and newly developed extinguishing agents.

*Transfer credit: CSU*

#### FT R155 – Fire Protection Equipment and Systems\* 3 Units

*Prerequisites: FT R151 or concurrent enrollment*

*Hours: 3 lecture weekly*

This course provides information relating the features of design and operation of fire detection, fire suppression and fire alarm systems, including heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection and portable fire extinguishers.

*Transfer credit: CSU*