

# COURSES

## FIRE PROTECTION TECHNOLOGY

### FIRS 1191 ORIENTATION

1 lec/0 lab (1 Cr.) Introductory course which covers Fire Academy Policies and Procedures. Students complete the National Fallen Firefighter's Foundation's Everyone Goes Home course. Students are shown how to contact campus PD and watch a video on Title IX curriculum

Credits

1

Distribution

FIRS

Course Fee

Internet course fee (if applicable): \$43

### FIRS 1301 FIREFIGHTER CERTIFICATION I

2 lec/2 lab (3 Cr.) Firefighter safety and development. Curriculum includes Texas Commission on fire protection rules and regulations, firefighter safety, fire science, personal protective equipment, self-contained breathing apparatus, and fire reports and records.

Credits

3

Distribution

FIRS

Course Fee

Background check: \$5, Drug testing fee: \$35, Insurance: \$13, Internet course fee (if applicable): \$43, Lab fee: \$24, State testing fee: \$85

### FIRS 1313 FIREFIGHTER CERTIFICATION III

2 lec/4 lab (3 Cr.) This course will include a study of fire streams and pump operations as they relate to fundamental development of basic firefighter skills.

Credits

3

Distribution

FIRS

Course Fee

Internet course fee (if applicable): \$43, Lab fee: \$24

### FIRS 1319 FIREFIGHTER CERTIFICATION IV

2 lec/3 lab (3 Cr.) Equipment, tactics, and procedures used in forcible entry, ventilation, salvage, and overhaul. This course will cover preparation for certification as a basic firefighter.

Credits

3

Distribution

FIRS

Course Fee

Lab fee: \$24

### FIRS 1323 FIREFIGHTER CERTIFICATION V

2 lec/4 lab (3 Cr.) Ropes and knots rescue procedures and techniques and hazardous materials. This course will cover preparation for certification as a basic fire fighter.

Credits

3

Distribution

FIRS

Offered  
Spring

Course Fee  
Lab fee: \$24

### **FIRS 1329 FIREFIGHTER CERTIFICATION VI**

2 lec/3 lab (3 Cr.) Fire inspection techniques and practices. Course content will emphasize fire-cause determination. Curriculum includes fire protection systems, wild land fire, and pre-incident planning. This course will cover preparation for certification as a basic firefighter.

Credits  
3

Distribution  
FIRS

Offered  
Spring

Course Fee  
Lab fee: \$24

### **FIRS 1333 FIREFIGHTER CERTIFICATION VII**

2 lec/5 lab (4 Cr.) Simulated emergency operations and hands-on live fire training exercises, incident management procedures, and combined operations using proper extinguishing methods. Emphasis on safety.

Credits  
4

Distribution  
FIRS

Offered  
Spring

Course Fee  
Lab fee: \$24

### **FIRS 1407 FIREFIGHTER CERTIFICATION II**

2 lec/4 lab (4 Cr.) Basic principles and skill development in handling fire service hose and ladders. Curriculum includes the distribution system of water supply, basic building construction, and emergency service communication, procedures, and equipment.

Credits  
4

Distribution  
FIRS

Course Fee  
Internet course fee (if applicable): \$43, Lab fee: \$24

### **FIRT 1301 FUNDAMENTALS OF FIRE PROTECTION**

3 lec (3 Cr.) College Success Skills to fire service, career opportunities, related fields. End-of-Course Outcomes: Describe a modern fire protection agency; outline the organizational and staffing requirements for fire protection; and identify public and private protection agencies.

Credits  
3

Distribution  
FIRT

Offered  
Summer

Course Fee  
Internet course fee (if applicable): \$43

## FIRT 1303 FIRE & ARSON INVESTIGATION I

3 lec (3 Cr.) Basic fire and arson investigation practices. Emphasis on fire behavior principles related to fire cause and origin determination. End-of-Course Outcomes: Identify the cause and point of origin and the cause of the fire; list possible motives of fire setters; and describe the elements of investigation practices.

Credits

3

Distribution

FIRT

Offered

Spring

Course Fee

Internet course fee (if applicable): \$43

## FIRT 1307 FIRE PREVENTION CODES & INSPECTION

3 lec (3 Cr.) Local building and fire prevention codes. Fire prevention inspections, practices, and procedures. End-of-Course Outcomes: Apply provisions of local building and fire prevention codes to fire prevention inspections; and describe fire inspection practices and procedures including hazard recognition and correction.

Credits

3

Distribution

FIRT

Offered

Summer

Course Fee

Internet course fee (if applicable): \$43

## FIRT 1309 FIRE ADMINISTRATION I

3 lec (3 Cr.) Introduction to the organization and management of a fire department and the relationship of government agencies to fire service. Emphasis on fire service leadership from the perspective of the company officer. End-of-Course Outcomes: Explain the intra-organizational cooperation needed for a fire department to function properly; describe fundamental management and organizational principles; and demonstrate leadership and management skills at the company-grade level.

Credits

3

Distribution

FIRT

Offered

Spring

Course Fee

Internet course fee (if applicable): \$43

## FIRT 1315 HAZARDOUS MATERIALS I

3 lec (3 Cr.) The chemical characteristics and behavior of various materials. Storage, transportation, handling hazardous emergency situations, and the most effective methods of hazard mitigation. End-of-Course Outcomes: Identify hazardous materials in various shipping and storage containers; explain chemical characteristics and how chemicals react under certain conditions; and describe the most effective methods of hazard mitigation.

Credits

3

Distribution

FIRT

Offered

Fall

Course Fee

Internet course fee (if applicable): \$43

## FIRT 1329 BUILDING CODES & CONSTRUCTION

3 lec (3 Cr.) Examination of building codes and requirements, construction types, and building materials. Includes walls, floorings, foundations, and various roof types and the associated dangers of each. End-of-Course Outcomes: Identify model building codes; and compare construction types related to fire behavior.

Credits

3

Distribution

FIRT

Offered

Fall

Course Fee

Internet course fee (if applicable): \$43

## FIRT 1338 FIRE PROTECTION SYSTEMS

3 lec/0 lab (3 Cr.) Design and operations of fire detection and alarm systems, hear and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers. This course meets Fire and Emergency Services Higher Education (FESHE) Model Curriculum core requirements.

Credits

3

Distribution

FIRT

Offered

Fall

Course Fee

Internet course fee (if applicable): \$43

## FIRT 1349 FIRE ADMINISTRATION II

3 lec (3 Cr.) In-depth study of fire service management as pertaining to budgetary requirements, administration, organization of divisions within the fire service, and relationships between the fire service and outside agencies. End-of- Course Outcomes: Explain the relationships with outside organizations and their impact on fire service operations; develop an organizational structure demonstrating interagency cooperation; and describe management principles and techniques for effective organizational performance.

Credits

3

Distribution

FIRT

Offered

Summer

Course Fee

Internet course fee (if applicable): \$43

## FIRT 1353 LEGAL ASPECTS OF FIRE PROTECTION

3 lec (3 Cr.) Study of the rights duties liability concerns and responsibilities of public fire protection agencies while performing assigned duties. End-of-Course Outcomes: Summarize basic criminal and civil law; discuss relevant tort law; and describe state and federal legal systems.

Credits

3

Distribution

FIRT

Offered

Summer

Course Fee

Internet course fee (if applicable): \$43

## FIRT 1433 FIRE CHEMISTRY I

3 lec/2 lab (4 Cr.) This course will examine the chemical nature and properties of compounds as related to the fire service. Issues to be discussed will be fundamental laws of chemistry, states of matter, gas laws, chemical bonding and thermodynamics.

Credits

4

Distribution

FIRT

Course Fee

Internet course fee (if applicable): \$43

## FIRT 1445 FIRE HAZARDOUS MATERIALS II

4 lec (4 Cr.) Mitigation practices and techniques to help effectively control hazardous material spills and leaks. End-of-Course Outcomes: Demonstrate proper methods of mitigating a hazardous material incident; and describe the components of a hazardous incident management system including scene control protective clothing and equipment spill and leak control and decontamination.

Credits

4

Distribution

FIRT

Offered

Spring

Course Fee

Internet course fee (if applicable): \$43

## FIRT 1492 SPECIAL TOPICS IN FIRE ADMINISTRATION

4 lec (4 Cr.) Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Credits

4

Distribution

FIRT

Course Fee

Internet course fee (if applicable): \$43

## FIRT 2305 FIRE INSTRUCTOR I

3 lec/1 lab (3 Cr.) Preparation of fire and emergency services personnel to deliver instruction from a prepared lesson plan. Includes the use of instructional aids and evaluation instruments to meet the curriculum requirements of the Texas Commission on Fire Protection (TCFP) for Fire Instructor I certification. THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS CERTIFIED AS A TRAINING FACILITY BY THE TEXAS COMMISSION ON FIRE PROTECTION.

Credits

3

Distribution

FIRT

Course Fee

Internet course fee (if applicable): \$43

## FIRT 2309 FIRE FIGHTING STRATEGIES & TACTICS I

3 lec (3 Cr.) Analysis of the nature of fire problems and selection of initial strategies and tactics including an in-depth study of efficient and effective use of manpower and equipment to mitigate the emergency. End-of-Course Outcomes: Identify potential scenarios in various fire situations; implement strategies and tactics; and describe components of an incident management system.

Credits

3

Distribution

FIRT

Course Fee

Internet course fee (if applicable): \$43

## FIRT 2351 COMPANY FIRE OFFICER

3 lec (3 Cr.) A capstone course covering fire ground operations and supervisory practices. Includes performance evaluation of incident commander, safety officer, public information officer, and shift supervisor duties. End-of-Course Outcomes: Communicate verbally and in writing the procedures needed for effective departmental operation; evaluate inquiries and concerns from the community for the purposes of public education and public relations; and integrate safety plans, policies, and procedures to help ensure compliance with National FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 1500.

Credits

3

Distribution

FIRT

Offered

Summer

Course Fee

Internet course fee (if applicable): \$43

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