

FIRT 1301 Fundamentals of Fire Protection 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Orientation to the fire service, career opportunities, and related fields. This course meets Fire and Emergency Services Higher Education (FESHE) Model Curriculum core requirements

FIRT 1303 Fire and Arson Investigation I 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

In-depth study of basic fire and arson investigation practices. Emphasis on fire behavior principles related to fire cause and origin determination.

FIRT 1307 Fire Prevention Codes and Inspections 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Study of local building and fire prevention codes. Emphasis on fire prevention inspections, practices, and procedures.

FIRT 1309 Fire Administration I 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Introduction to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis on fire service leadership from the perspective of the company officer.

FIRT 1311 Fire Service Hydraulics 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Principles of the use of water in fire protection. Includes application of hydraulic principles to analyze and solve water supply problems. Not offered in Texas.

FIRT 1315 Hazardous Materials I 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Study of the chemical characteristics and behavior of various materials. Topics include storage, transportation, handling hazardous emergency situations, and the most effective methods of hazard mitigation.

FIRT 1319 Firefighter Health and Safety 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Study of firefighter occupational safety and health in emergency and non-emergency situations. This course meets Fire and Emergency Services Higher Education (FESHE) Model Curriculum core requirements.

FIRT 1329 Building Codes and Construction 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Examination of building codes and requirements, construction types, and building materials. Topics include walls, floorings, foundations, and various roof types and the associated dangers of each. Not offered in Texas.

FIRT 1333 Fire Chemistry I 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Introduction to the chemical nature and properties of inorganic compounds as related to the fire service. Topics include fundamental laws of chemistry, states of matter, gas laws, chemical bonding, and thermodynamics with applications to various industrial processes. Not offered in Texas.

FIRT 1338 Fire Protection Systems 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Design and operation of fire detection and alarm systems, heat 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.

FIRT 1347 Industrial Fire Protection 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Study of industrial emergency response teams and specific concerns related to business and industrial facilities. Not offered in Texas.

FIRT 1349 Fire Administration II 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

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. Not offered in

Texas.

FIRT 2309 Firefighting Strategies and Tactics I 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

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.

FIRT 2331 Firefighting Strategies and Tactics II 3-0-3 [Download Syllabus](#) - [Schedule Locations](#)

Continuation of Firefighting Strategies and Tactics I. Emphasis on use of incident command in large scale command problems and other specialized fire problems. Not offered in Texas.

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