

# FIRT - FIRE PROTECTION TECH

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## **FIRT 1301 Fundamentals of Fire Protection 3 Credit Hours (3 Lec)**

Orientation to the fire service, career opportunities, and related fields. This course meets Fire and Emergency Services Higher Education (FESHE) Model Curriculum core requirements. (In this course, the student will learn fundamentals of fire and emergency services, history and traditions of the fire service up to contemporary influences, fire service tools and resources, principles of fire dynamics, building construction, codes and ordinances, fire protection systems, operation within the fire department rank structure and as a component of the Incident Command System, preincident planning, fire strategy, and tactics, fire and emergency services agencies and organizations, expectations of character and physical fitness for the fire and emergency services, and developing an educational strategy and career path plan.)

Course Type: Technical/Vocational Course

## **FIRT 1307 Fire Prevention Codes and Inspection 3 Credit Hours (3 Lec)**

Course Type: Technical/Vocational Course

## **FIRT 1309 Fire Administration I 3 Credit Hours (3 Lec)**

Course Type: Technical/Vocational Course

## **FIRT 1315 Hazardous Material I 3 Credit Hours (3 Lec)**

The chemical characteristics and behavior of various materials. Storage, transportation, handling hazardous emergency situations, and the most effective methods of hazard mitigation.

Course Type: Technical/Vocational Course

## **FIRT 1319 Firefighter Health and Safety 3 Credit Hours (3 Lec)**

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

Course Type: Technical/Vocational Course

## **FIRT 1327 Building Construction in the Fire Service 3 Credit Hours (3 Lec)**

Components of building construction that relate to life safety. Includes relationship of construction elements and building design impacting fire spread in structures.

Course Type: Technical/Vocational Course

## **FIRT 1329 Building Codes and Construction 3 Credit Hours (3 Lec)**

Course Type: Technical/Vocational Course

## **FIRT 1333 Fire Chemistry I 3 Credit Hours (2 Lec, 4 Lab)**

Chemical nature and properties of compounds as related to the fire service. Fundamental laws of chemistry, states of matter, gas laws, chemical bonding, and thermodynamics. This course meets Fire and Emergency Services Higher Education (FESHE) Model Curriculum core requirements.

Course Type: Technical/Vocational Course

## **FIRT 1338 Fire Protection Systems 3 Credit Hours (3 Lec)**

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.

Course Type: Technical/Vocational Course

## **FIRT 1342 Fire Officer I 3 Credit Hours (3 Lec)**

Meets the curriculum requirements of the Texas Commission on Fire Protection (TCFP) for Fire Officer I certification. (This course is designed for the first-line company officer/supervisor. The Fire Officer I course satisfies the requirements of the (NFPA) 1021 National Fire Protection Association, Chapter 4 and provides the tools necessary to obtain certification through the (TCFP) Texas Commission on Fire Protection, and (SFFMA) State Firemen's and Fire Marshals' Association of Texas.)

Course Type: Technical/Vocational Course

## **FIRT 1347 Industrial Fire Protection 3 Credit Hours (3 Lec)**

Course Type: Technical/Vocational Course

## **FIRT 1349 Fire Administration II 3 Credit Hours (3 Lec)**

Course Type: Technical/Vocational Course

## **FIRT 1353 Legal Aspects of Fire Protection 3 Credit Hours (3 Lec)**

Summarize basic criminal and civil law; discuss relevant tort law; and describe state and federal legal systems as they relate to the fire service. (This course covers the study of the rights, duties, liability concerns, and responsibilities of public fire protection agencies while performing assigned duties.)

Course Type: Technical/Vocational Course