

FIRE SCIENCE TECHNOLOGY (FST)

FST-202 Principles of Emergency Services 3 credits, Fall

This course provides an overview of fire protection and emergency services to include: career opportunities in fire protection and related fields, culture and history of emergency services, fire loss analysis, organization and function of public and private fire protection services, fire departments as a part of local government, laws and regulations affecting the fire service, fire service nomenclature, specific fire protection functions, basic fire chemistry and physics, introduction to fire protection systems, introduction to fire strategy and tactics and life safety initiatives. FESHE course code: C0273

FST-204 Fire Protection Systems 3 credits, Not Offered Every Term

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. FESHE course code: C0288

FST-205 Fire Instructor I 3 credits, Not Offered Every Year

The Instructor I course is designed to give the student the knowledge and ability to teach from prepared materials in multi-discipline activities found within public safety (fire, law enforcement, wildland, emergency medical services, etc.). Prepares the program participants for planning instruction, using a variety of instructional methods, teaching diverse learners, and evaluating course outcomes. This course meets the competency standards established by the National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications, Instructor I.

FST-206 Fire Behavior and Combustion 3 credits, Not Offered Every Term

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. FESHE course code: C0276

FST-207 Fire Instructor II 4 credits, Not Offered Every Year

The Instructor II course is designed to give the student the knowledge and ability to develop and adapt curriculum used to instruct public safety (fire, law enforcement, wildland, emergency medical services, etc.) personnel. Uses an intensive instructional methodology program to prepare the participant for planning and developing all aspects of course curriculum. This course meets the competency standards established by the National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications, Instructor II.
Prerequisites: FST-205

FST-212 Fire Prevention 3 credits, Not Offered Every Term

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention, organization and operation of fire prevention bureau, use and application of codes and standards, plans review, fire inspections, fire and life safety education and fire investigation. FESHE course code: C0286

FST-214 Building Construction for Fire Protection 3 credits, Not Offered Every Term

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations and operating at emergencies. FESHE course code: C0275

FST-216 Principles of Fire and Emergency Services Safety and Survival 3 credits, Not Offered Every Term

This course introduces the basic principles and history related to the national firefighter life safety initiatives focusing on the need for cultural and behavior change throughout the emergency services. FESHE course code: C0281

FST-240 Fire Officer I 4 credits, Not Offered Every Year

This course is part I of the Fire Officer series and is designed for the first-line company officer/supervisor and satisfies the requirements of the National Fire Protection Association (NFPA) 1021 Standard for Fire Officer Professional Qualifications, Chapter four Fire Officer I. It is designed around classroom lectures and group exercises to improve the student's abilities to manage a single fire company. This includes responsibilities such as the development of an Incident Action Plan (IAP), personnel management and mentoring, and community relations.
Prerequisites: FRP-291, FRP-292

FST-245 Fire Officer II 4 credits, Not Offered Every Year

This course is part II of the Fire Officer series and is designed as a continuation for the first-line company officer/supervisor and satisfies the requirements of the National Fire Protection Association (NFPA) 1021 Standard for Fire Officer Professional Qualifications, Chapter four Fire Officer I. It is designed around classroom lectures and group exercises to improve the student's abilities to manage a single fire company. This includes responsibilities such as the development of an Incident Action Plan (IAP), personnel management and mentoring, and community relations.
Prerequisites: FST-240