

# FT - FIRE SCIENCE TECHNOLOGY

## FT 100 - Introduction to Emergency Services

Units: 3

This course is designed to give a broad overview of each of the disciplines of emergency services including; Fire, Rescue, EMS, Law Enforcement, Hazardous Materials, and Emergency Management/ Emergency Operations Center functions.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Term Offered: Spring and Fall*

## FT 101 - Introduction to Fire Protection

Units: 3

This course covers the philosophy and history of fire protection; history of loss of life and property by fire; review of municipal fire defenses; study of the organization and function of federal, state, county and private fire protection agencies. The student will understand the hiring requirements of different agencies and the current job market in suppression, wildland firefighting, prevention and public education. In addition the student will learn the basic terms related to the fire service.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Term Offered: Spring and Fall*

## FT 102 - Entry Level Firefighter

Units: 3

This course will provide the student with foundational training in fire suppression, rescue techniques, and emergency response.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Term Offered: Spring and Fall*

## FT 106 - Firefighter I Academy

Units: 12

The academy covers all of the National Fire Protection Association and Nevada State Firefighter I requirements. The curriculum covers fire behavior, firefighter safety, personal protective equipment, self-contained breathing apparatus, portable fire extinguishers, water supply, fire hose and appliances, nozzles, fire streams, basic building construction, ladders, ropes and knots, rescue procedures, forcible entry, ventilation, salvage and overhaul, hazardous material mitigation to the operational level, basic terrorism, and wildland firefighting (S-110, 130, 190).

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Prerequisite FT 102 & EMS 101 or current American Heart Association BLS CPR and AHA First aid. Corequisite or Prerequisite: FT 131.*  
*Term Offered: Fall*

## FT 109 - Internship in Firefighting

Units: 5

A course designed wherein the students will apply knowledge to real on-the-job situations in a program designed by a company official and a faculty advisor to maximize learning experiences. Available to students who have completed all core and major requirements and have a 2.5 GPA. Contact the appropriate chairperson for the application, screening and required skills evaluation. Up to 8 semester hour credits may be earned on the basis of 100 hours of internship for 1 credit. May be repeated for up to 8 credits.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Prerequisite: FT 106 (or Firefighter II) and EMS 108 (or EMT-B)*  
*Term Offered: AS NEEDED*

## FT 110 - Basic Wildland Firefighting

Units: 3

This course introduces most aspects of wild land fire control including fire prevention, fire preparedness and fire suppression. Students will become familiar with the Incident Command System, fire behavior, maps, map reading and fire suppression with special emphasis on fire line safety.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Term Offered: Fall*

## FT 121 - Fire Prevention I

Units: 3

Familiarization with national, state and local laws and ordinances influencing fire prevention and fire underwriting; principles and problems relating to fire prevention.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Term Offered: Spring*

## FT 122 - Codes/Ordinances I

Units: 3

Familiarization with national, state and local laws and ordinances which influence the field of fire protection.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Term Offered: Fall*

## FT 125 - Build Construction I

Units: 3

Fundamentals of building construction and design with emphasis on fire resistance of building materials, assemblies, exposures and related data focused on fire protection. The course will also deal with related codes and statutes and introduce basic blueprint reading.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Term Offered: Spring*

## FT 131 - Hazardous Materials

Units: 3

A review of basic properties of solids, liquids and gases and the storage, handling, law, standards and firefighting practices pertaining to hazardous materials.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Term Offered: Spring and Fall*

## FT 151 - Fire Protection Hydraulics and Water Supply

Units: 3

Review of basic mathematics; hydraulic laws and formulae as applied to fire science; application of formula and mental calculations on hydraulic problems; water distribution systems; water supply problems; underwriter's requirements for pumps. \*

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Enrollment Requirements: Prerequisite: MATH 96 or equivalent or Accuplacer, ACT/SAT test results.*  
*Term Offered: AS NEEDED*

## FT 200 - Leadership and Ethics in Emergency Service

Units: 3

This course is designed to give a comprehensive view of leadership in emergency services. It is designed around 12 topics of leadership including; problem solving, decision making, planning skills and cycles, communication, managing multiple roles, creativity, enhancing your personal power base, ethics, situational leadership, delegating, coaching, and discipline. This course and material are directly structured and related to the National Fire Academy and Emergency Management Institute under direction of FEMA and Homeland Security.

*Transferability: May not transfer towards an NSHE bachelor's degree*  
*Term Offered: Spring and Fall*

**FT 206 - Firefighter II Academy**

**Units: 10**

This academy builds on the Firefighter I Academy and reinforces those basic skills. In addition this academy covers: fire department communications, foams, fireground operations (tactics and strategies), advanced rescue operations, firefighter survival, fire prevention, public education, advanced building construction, pre-planning, equipment operation, equipment maintenance, equipment and hose testing, basic hydraulics, intermediate wildland fire behavior (S-290), basic air operations (S-270), hydrant testing, and basic vehicle extrication.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Enrollment Requirements: Prerequisite: FT 106 or Firefighter I Certification.*

**FT 212 - Fire and Ecology**

**Units: 3**

Fire Ecology and Ecosystem Management studies the science of ecosystem management and the effects of fire on ecosystem. In addition the course studies the past and future of fire as a tool in ecosystem management as well as the social, economic, legal and political considerations.

*Transferability: May not transfer towards an NSHE bachelor's degree*

*Term Offered: Spring*