



Fire And Emergency Medical Services

Course Description

Fire and Emergency Medical Sciences prepares the student to enter the workforce or pursue further education in the field of Emergency Medical Services (EMS) and Fire Science. The principles and practices of emergency response and fire fighting will be explored under the direct supervision of a certified EMT-B instructor. The curriculum consists of planned learning experiences in the classroom, laboratory, and faculty supervised clinical settings. Students will have the opportunity to observe and interact with a variety of patients experiencing varying degrees of injury or disease that are carefully selected to provide appropriate clinical learning experiences. As preparation, students will be provided with ample lab practice to fully prepare them for the clinical experience and minimize risks. Offsite clinical lab opportunities at Northern Virginia Community College, Medical Education Center (NVCC MEC) and Fairfax County Fire and Rescue Academy will be available to the students. Students must purchase uniforms and liability insurance to participate in clinical experiences.

Curriculum

Ambulance Operations • Anatomy and Physiology • Assessments • Chemistry and Physics of Fire • Communication • CPR Professional Rescuer • Emergency procedures • Extrication • Firefighter Fitness • Guest speakers from local state and fire and rescue agencies • Hazardous Materials • Legal and Ethical Issues • Personal Safety • Pharmacology • Rescue Operations

Prerequisites

- Genuine interest in pursuing a career in the fire and rescue field
- Parental permission prior to specific activities
- Purchase and wear a selected uniform to wear on selected days
- Purchase of liability insurance

Certifications

- American Heart Association Healthcare Provider CPR
- Bloodborne Pathogens
- Community Emergency Response Team (CERT)
- Emergency Medical Technician-Basic (EMT-B)
- Hazardous Materials Response

Articulation Agreements

Students with an earned EMT-B certification will be awarded 6 credits towards a paramedic degree at NVCC.

Colleges/Universities

Graduates interested in Fire and Emergency Medical Sciences can continue their studies at a large variety of schools including:

- George Washington University
- Northern Virginia Community College
- Piedmont Virginia Community College
- University of Virginia
- Virginia Commonwealth University

Careers

The study of Fire and Emergency Medical Sciences may lead to these careers:

Firefighter • EMT • Paramedic • Fire inspector

For More Information: Falls Church High School

(703) 207-4092 • www.fcps.edu/FallsChurchHS/academy/index.htm