



## Fire Protection Technology

### Associate in Occupational Studies Degree, Career program

Division of Social Sciences & Social Services, Interim Associate Dean: Deborah Beall

Coordinator: Brandon Rosettie

This program provides educational and research opportunities for individuals working in fire protection technology. It emphasizes new developments and use of up-to-date equipment in firefighting. Most of the instruction for the fire science courses is conducted by certified instructors at the New York State Academy of Fire Science in Montour Falls, NY and at outreach sites. Therefore, students must be members of a New York State fire department to be eligible to enroll in those courses. CCC residency credit can be earned for those Fire Science courses offered at the Academy and at other approved outreach sites by matriculating in this program and registering for each individual course with CCC.

At least 30 hours of residency credit are required to receive this degree. It is essential that students meet with the Coordinator of this program to carefully plan how they will meet the residency credit requirement.

Learning outcomes for the program are developed through state curriculum standards. Graduates will be able to demonstrate knowledge in fire suppression, fire prevention, building construction, building inspection, and in a variety of rescue operations; understand the theoretical foundation of fire protection technology, such as the physical, chemical and behavioral characteristics of fire and of fire-related human behavior; demonstrate leadership qualities necessary in fire administration and supervision; and safely manage the scene of an emergency.

*High school or equivalent preparation desired: No special requirements.*

### Program Requirements

Fire Science Courses:

Introduction to Fire Science (FIRE 1100) .....	3	Principles of Building Construction:	
Firefighter I (FIRE 1121) .....	5	Combustible (FIRE 1153) .....	1
Firefighter II (FIRE 2121) .....	2	Principles of Building Construction:	
Apparatus Operator: Emergency Vehicle		Noncombustible (FIRE 1152) .....	1
Operation (FIRE 1136) .....	1	Code Enforcement (FIRE 1301 or 1302) .....	3
Apparatus Operator: Pump (FIRE 2132) .....	1.5	Certified First Responder (FIRE 1000) .....	4
Truck Company Operations (FIRE 2131) .....	1.5	Fire Science Electives (see list below) .....	21
Accident Victim Extrication Training (FIRE 1730) .....	1	Free electives .....	12
Firefighter Survival (FIRE 1058) .....	0.5	Total hours .....	62.5
Firefighter Assist and Search Team (FAST) (FIRE 1059) .....	1		
Rescue Technician: Basic (FIRE 1701) .....	1.5		
Incident Command System (FIRE 1660) .....	0.5		
Fire Behavior and Arson Awareness (FIRE 1410) .....	0.5		
Principles of Fire Investigation (FIRE 1400) .....	1.5		

While not specific program requirements, in order to graduate from this program students must demonstrate the writing skills necessary to enter ENGL 1010, College Composition I, and the math skills necessary to enter MATH 1015, Introductory Algebra. Based on assessment, students may need to successfully complete ENGL 0950, Basic Writing Skills, READ 0800 or READ 0850, Reading Skills and MATH 0960, Basic Math Skills to fulfill the graduation requirement. It is essential to discuss this with an advisor.

*Program electives:* Select from any ABOD, ACCT, AUTO, BIOL, CHEM, CRJ, CSCN, CSIT, CSST, CSWT, CSNT, EMS, ELEC, ENGR, FIRE, GOVT, HLTH, HUSR, LEN, MACH, MATH, MECH, MGMT, PHYS, PSYC, SIGN, SPAN, SOCI and TECH courses; ENGL 1500-1510; SCIN 1030-1040; SPCH 1060 or 1080.