

Fire Science Technology

FIR.AAS

CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
First Year/First Semester			Second Year/First Semester		
ENG-101	English Composition I	3	FIR-202	Fire Investigation	3
FIR-101	Fundamentals of Fire Behavior/Protection	3	FIR-211	Building Construction for Fire Service	3
FIR-102	Fundamentals of Fire Prevention/Fire Inspector I	3	FIR-225	Hydraulics	3
CHM-120	Chemistry for Fire Protection	4	FIR-251	Fire Service Instruction Techniques & Methods or	
PSY-101	Basic Psychology or		FIR-212	Fire Official	3
SOC-101	Introduction to Sociology	3	FIR-121	Fire Fighting Tactics and Strategy or	
		16	FIR-106	NJ Firefighter II	3
					15
Second Semester			Second Semester		
ENG-102	English Composition II	3	FIR-201	Fire Protection Systems	3
EMT-101	Emergency Medical Technician ¹	6	FIR-252	Arson/Law & Court Procedures	3
MTH-111	Introduction to Statistics	3	PHL-131	Introduction to Ethics	3
FIR-222	Fire Inspector II	3	FIR-231	Organization & Management of Fire Departments or	
FIR-125	Firefighter Safety and Survival	3	FIR-235	NJ Fire Officer I	3
		18	Diversity General Education Elective	3
					15
					64
				Total Minimum Credits	

¹ ALH-171 and ALH-172 may be substituted for EMT-101

PROGRAM DESCRIPTION

The Fire Science Technology program follows the (FEMA) national curriculum based on the National Fire Academy FESHE (Fire and Emergency Services Higher Education) model for professional training and education in fire science. This program provides advanced education for people seeking careers in the fire service and related fields. Students who are matriculated in this program may receive up to 27 credits for prior learning documented by New Jersey state certifications in prevention, suppression and Emergency Medical Services (EMS) programs.

PROGRAM GOALS

- To prepare students to understand building construction techniques and code requirements and the relationship of both to fire prevention and suppression.
- To prepare students to understand fire department organization and management models applied in effective emergency service organizations.
- To understand the chemistry of fire and hazardous materials and apply that knowledge to increased safe practices in emergency operations.
- To prepare students to be able to train others in the fire service so that injuries and deaths are eliminated from fire operations.
- To prepare students to understand the principles of fire investigation and how to apply that knowledge toward creating a more fire safe community.
- To prepare students to transfer to partner colleges and universities to continue their education.

PROGRAM STUDENT LEARNING OUTCOMES

- At the end of the program, the graduate will be able to:
1. Explain the organization and function of a fire department with emphasis on staffing and other critical resources to efficiently deliver services.
 2. Articulate how the basic principles of chemistry and hazardous materials determine acceptable and effective strategy and tactics for suppressing fires.
 3. Analyze the impact that construction and building codes have in determining acceptable strategies and tactics for suppressing fires.
 4. Describe how effective fire investigation leads to origin and cause determination and the role of the firefighter in the process.

PROGRAM INFORMATION

Students will earn certificates for the completion of each professional course that meets New Jersey Uniform Fire Code certification requirements in prevention and suppression.

EMPLOYMENT OPPORTUNITIES

- Municipal fire departments
- Fire alarm and fire suppression systems industry
- Industrial fire protection and insurance/loss prevention industry

CONTACT PERSON

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