



Fire Science

Associate in Applied Science

Four Semester Pathway Academic Year 2025-2026

Semester 1	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
FIRE 105	Fire Studies and Stayin' Alive FIG				4	
MATH 130 OR MATH 140	Technical Mathematics College Algebra		MATH 040		3	
FIRE 106 OR FIRE 110 & FIRE 115	Firefighter I & II Fire Protection Systems Fire Service Building Construction	Offered Fall semester only	**See Below	FIRE 105	6	
Semester 2						
ENGL 100	English Composition		ENGL 080		3	
EMST 125 OR *CHEM 103 OR BIOL 132	Emergency Medical Technician Chemistry for Emergency Responders with Lab Anatomy & Physiology I with Lab		MATH 040	ENGL 100 or ENGL 101, MATH 130 or MATH 140 ENGL 100 or ENGL 101	4-7	
FIRE 150	Fire Inspector	Offered Spring semester only			3	
FIRE 155	Fire Service Hydraulics	Offered Spring and Summer semesters only		MATH 130 or MATH 140	3	
**CHEM 102 OR FIRE 120	Chemistry for Emergency Responders Fire Behavior and Combustion		MATH 130 or MATH 140	ENGL 100 or ENGL 101, MATH 130 or MATH 140	3	
Semester 3						
ENGL 115	Introduction to Literature		ENGL 100 or ENGL 101		3	
FIRE 200	Hazardous Materials	Offered Fall semester only	30 credits toward major		3	
FIRE 215	Fire Service Leadership	Offered Fall semester only	ENGL 100 or ENGL 101		3	
PSYC 100	Introduction to Psychology			ENGL 080	3	
	Fire Science Elective		See course prerequisites	See course prerequisites	3	
IF NOT COMPLETED FIRE 110 & FIRE 115	Fire Protection Systems Fire Service Building Construction	Offered Fall semester only		FIRE 105	6	
Semester 4						
FIRE 250	Fire Ground Operations	Offered Spring semester only	30 credits toward major		3	
FIRE 265	Community Risk Reduction	Offered Spring semester only	ENGL 100 or ENGL 101, 30 credits toward major		3	
IF NOT COMPLETED **CHEM 103 OR BIOL 132	Chemistry for Emergency Responders with Lab Anatomy & Physiology I with Lab		MATH 040	ENGL 100 or ENGL 101, MATH 130 or MATH 140 ENGL 100 or ENGL 101	4	
	Social Science Elective	SOCI 100 Introduction to Sociology	See course prerequisites	See course corequisites	3	
	Fine Arts or Humanities Elective	ARTS 150 Metal Arts, ARTS 170 Photography, or PHIL 155 Philosophy in Action	See course prerequisites	See course prerequisites	3	
FIRE 145 OR FIRE 205	Firefighter Health, Wellness, and Safety Fire & Life Safety Educator				3	
Total Credits					64	

*Students can not take both CHEM 102 and CHEM 103. Students completing CHEM 103 for their lab science should register for FIRE 120

[Advice on Choosing Electives](#)

Fire Science Technology

General Elective Requirements					
COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
ENGL 100	English Composition	ENGL 080		3	
ENGL 115	Introduction to Literature	ENGL 100 or ENGL 101		3	
MATH 130 OR MATH 140	Technical Mathematics OR College Algebra	MATH 040		3	
*CHEM 103 OR BIOL 132	Chemistry for Emergency Responders with Lab Anatomy & Physiology I with Lab	MATH 040	ENGL 100 or ENGL 101, MATH 130 or MATH 140 ENGL 100 or ENGL 101	4	
PSYC 100	Introduction to Psychology		ENGL 080	3	
	Fine Arts or Humanities Elective			3	
	Social Science Elective			3	

Major Required Courses					
COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
*CHEM 102 OR FIRE 120	Chemistry for Emergency Responders Fire Behavior and Combustion	MATH 130 or MATH 140	ENGL 100 or ENGL 101, MATH 130 or MATH 140	3	
FIRE 105	Fire Studies & Stayin' Alive FIG			4	
FIRE 110	Fire Protection Systems		FIRE 105	3	
FIRE 115	Fire Service Building Construction		FIRE 105	3	
FIRE 150	Fire Inspector			3	
FIRE 145 OR FIRE 205	Firefighter Health, Wellness, and Safety Fire & Life Safety Educator			3	
FIRE 155	Fire Service Hydraulics		MATH 130 or MATH 140	3	
FIRE 200	Hazardous Materials	30 credits toward major		3	
FIRE 215	Fire Service Leadership	ENGL 100 or ENGL 101		3	
FIRE 250	Fire Ground Operations	30 credits toward major		3	
FIRE 265	Community Risk Reduction	ENGL 100 or ENGL 101, 30 credits toward major		3	
FIRE 106 OR EMST 125	Firefighter I & II Emergency Medical Technician	**See Below	FIRE 105	6-7	
	Fire Science Technology Electives			3	

*Students can not take both CHEM 102 and CHEM 103. Students completing CHEM 103 for their lab science should register for FIRE 120

**FIRE 106 Prerequisite: NFPA 1582-compliant medical evaluation and Maine Bureau of Labor Standards respiratory protection requirements. Non-Fire Department affiliated students must arrange for compliant personal protective equipment (PPE) and self-contained breathing apparatus (SCBA) to use throughout the course.