

# Fire Science (AAS)

**Degree Type:** Associate of Applied Science Degree

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**Purpose:** Career and Technical Education. The Fire Science program focuses on providing learning opportunities that introduce, develop and reinforce academic and occupational knowledge, skills and attitudes required for job acquisition, retention and advancement. This degree option prepares students for entry-level employment and a foundation for future advancement in the firefighting, fire inspection, fire instructor and fire investigation fields.

## FIRST YEAR

Fall Semester			Hours	
FIRE	115	Firefighter I and II <sup>(1)</sup>	12	
FIRE	119	Fire Behavior and Combustion (FESHE)	3	
HPER	151	Foundations of Fitness	1	
TOTAL HOURS			16	

Spring Semester			Hours	
EMDS	105	Emergency Medical Services I	9	
FIRE	118	Hazardous Materials Awareness and Operations <sup>(1)</sup> (FESHE)	3	
FIRE	126	Principles of Emergency Services (FESHE)	3	
FIRE	135	Fire Prevention (FESHE)	3	
TOTAL HOURS			18	

Approved Fire Science Electives			Hours	
FIRE	215	Tactics and Strategies	3	
FIRE	216	Fire Instructor	3	
FIRE	225	Hydraulics and Water	3	
FIRE	239	Search and Rescue (land, water, and structural collapse)	3	
FIRE	245	Fire Codes and Inspection	3	
FIRE	255	Leadership in the Fire Service	3	
FRST	225	Wildland Fire Management	3	
ADJU	113	Criminal Law	3	
ADJU	233	Criminal Investigations	3	
ADJU	128	Forensic Science and Criminalistics	3	

## SECOND YEAR

Fall Semester			Hours	
CIVL MATH	106 103/153	Technical Math I <i>-or-</i> Intermediate Algebra <i>-or-</i> higher	3-4	
FIRE	217	Building Construction for Fire Fighters (FESHE)	3	
FIRE	226	Principles of Emergency Services Safety and Survival (FESHE)	3	
HPER	152	Fitness Center I	1	
		Fire Science Elective <sup>(2)</sup>	3	
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TOTAL HOURS			16-17	

Spring Semester			Hours	
CIVL	198	Workplace Readiness Seminar	1	
ENGL	111	College Writing	3	
FIRE	235	Fire Detection and Suppression (FESHE)	3	
GOVT	121	National and State Government	3	
SCOM	110	Public Speaking	3	
		Fire Science Elective <sup>(2)</sup>	3	
TOTAL HOURS			16	

<sup>(1)</sup>These courses require skills and written examinations by the Missouri Division of Fire Safety to obtain state certification. Students must meet all state requirements prior to taking certification tests. There is a \$200 course fee attached to FIRE 115 and a \$25 fee attached to FIRE 118. Prior to participating in any hands-on activities in FIRE 115 students must submit a physical consent and release form to the instructor.

<sup>(2)</sup>Students must choose from the approved fire science elective selection.

Please see individual course descriptions for prerequisites, corequisites, and/or other requirements.