

Fire Science Technology, CAS

Academic Year 2026-2027

Program Description:

This 30-credit hour certificate program is designed to prepare students for entry into the fire service. This program will give students an in-depth understanding of fire service

Program Outcomes:

Upon completion of this program students will be able to:

- Explain the history and basic principles of the fire service
- Identify the primary responsibilities of personnel in the varied roles in the fire service
- Communicate and utilize interpersonal skills with supervisors, peers, and the public
- Explain the principles of fire development, cause and prevention.
- Describe the impact of the types of building construction as it relates to fire behavior
- Prepare students to sit for the FIRE 101 and 102 NFPA 1001 and 1403 certifications required for all firefighters in the state of West Virginia.

Career Outlook and Salary forecast:

For the most current information please refer to the Bureau of Labor Statistics “Occupational Outlook Handbook” found at www.bls.gov/ooh/.

Program Admission Requirements:

Students will be scheduled to complete a background check and a pre-employment drug screening prior to beginning classes. Students who have been convicted of a felony or fail the drug screening are not eligible to participate in this program. Random drug screenings are a condition of continued employment.

Contact Information:

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www.mctc.edu

Mountwest Community & Technical College
Academic Year 2026-2027

03/03/2026

Fire Science Technology CAS – Major Code CF30

Name:	ID Number 942-
Educational Counselor:	
Faculty Advisor:	

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
FIRE 101	Basic Firefighter I (1 st 8 weeks) ¹		3				
FIRE 102	Basic Firefighter II (2 nd 8 weeks) ²		3				
FIRE 103	Fire Behavior, Combustion, & Suppression ³		3				
FIRE 220	Fire Service Pump and Hydraulic Systems ⁴		3				
FIRE 296	Fire Science On-The-Job Training I ⁴		3				
			15				
FIRE 230	Incident Command Systems		3				
FIRE 201	Basic Firefighter III (1 st 8 weeks) ⁵		3				
FIRE 202	Basic Firefighter IV (2 nd 8 weeks)		3				
FIRE 235	Fire Investigation and Risk Reduction ⁷		3				
FIRE 297	Fire Science On-The-Job Training II ⁴		3				
			15				
	Hours required for Graduation		30				

¹ FIRE 101 has a corequisite of FIRE 102

² FIRE 102 has a prerequisite of FIRE 101

³ FIRE 103 has prerequisites of FIRE 101, 102, and CPR/First Aid certification.

⁴ FIRE 220, 296, 297, 298, and 299 have prerequisites of FIRE 101 and 102

⁵ FIRE 201 has prerequisites of FIRE 101, 102, and 103

⁶ FIRE 202 has prerequisites of FIRE 101, 102, and 201

⁷ FIRE 235 has prerequisites of FIRE 101, 102, 201, and 202