

FIRE AND EMERGENCY SERVICES MANAGEMENT CERTIFICATE

Total Credits: 24

Catalog Edition: 2025-2026

Program Description

This curriculum is designed to provide individuals with the principles, theory, and practices associated with state-of-the-art fire science and management, including issues related to tactical fire operations, fire safety, firefighting and emergency services leadership and management, and community fire issues. This curriculum is designed to meet the needs of the professional and volunteer fire service personnel and those seeking employment in the fire and emergency services. **This program can be completed either on campus or online.**

Program Outcomes

Upon completion of this program, a student will be able to:

- Describe the common types of fire and emergency services facilities, equipment, and apparatus.
- Categorize the components of fire.
- Classify major types of building construction in accordance with a local/model building code.
- Explain the importance of investigating all near-misses, injuries, and fatalities.
- Describe inspection practices and procedures.
- Describe the traits of effective versus ineffective management styles.

Program Advisors

Rockville

- Prof. Kathleen Dayton 240-567-7580
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For more information, please visit <https://www.montgomerycollege.edu/academics/programs/fire-science-and-emergency-services/fire-and-emergency-services-management-certificate.html>

2025-2026

Program Advising Guide

An Academic Reference Tool for Students

FIRE AND EMERGENCY SERVICES MANAGEMENT CERTIFICATE

Program Requirements

A suggested course sequence for full-time students follows. All students should review this advising guide and consult an advisor.

Program Requirements

FIRE 101 - Principles of Emergency Services *3 semester hours*

FIRE 102 - Fire Behavior and Combustion *3 semester hours*

FIRE 103 - Building Construction for Fire Protection *3 semester hours*

FIRE 104 - Principles of Fire and Emergency Services Safety & Survival *3 semester hours*

FIRE 105 - Fire Prevention *3 semester hours*

FIRE 201 - Fire Protection Systems *3 semester hours*

FIRE 202 - Fire Protection Hydraulics and Water Supply *3 semester hours*

FIRE 203 - Principles of Fire and Emergency Service Administration *3 semester hours*

Total Credit Hours: 24

This program can be completed either on campus or online.

Transfer Opportunities

Montgomery College has partnerships with multiple four-year institutions and the tools to help you transfer. To learn more, please visit <https://www.montgomerycollege.edu/transfer> or <http://artsys.usmd.edu>.

Get Involved at MC!

Employers and Transfer Institutions are looking for experience outside the classroom.

MC Student Clubs and Organizations: <https://www.montgomerycollege.edu/life-at-mc/student-life/>

Related Careers

Some require a Bachelor's degree.
Emergency Management Director, Fire-Prevention and Protection Engineer, Emergency Medical Technician and Paramedic, Municipal Fire Fighting and Prevention Supervisor, Municipal Firefighter, Fire Inspector.

Career Services

Montgomery College offers a range of services to students and alumni to support the career planning process. To learn more, please visit <https://www.montgomerycollege.edu/career>

Career Coach

A valuable online search tool that will give you the opportunity to explore hundreds of potential careers or job possibilities in Maryland and the Washington D.C. metropolitan area. Get started today on your road to a new future and give it a try. For more information, please visit <https://montgomerycollege.emsicc.com>

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