

FIRE AND EMERGENCY SERVICES MANAGEMENT AAS, STATEWIDE PROGRAM

Total Credits: 60

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.

Students expand their thinking beyond fire-specific issues in areas related to firefighting through coursework in human resource management, administration, homeland security and emergency/disaster management, fire protection services, safety and prevention, and investigation.

This curriculum is designed to meet the needs of 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:

- Demonstrate knowledge of building construction and associated fire codes.
- Apply and discuss water supply management for fire protection systems and fire scene use.
- Apply chemistry, mathematics, and physics to solve fire protection problems.
- Identify and differentiate the various forms of fire, their fundamental scientific principles, and their associated mitigation and response strategies.

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-aas-degree.html>

To view the Advising Worksheet, please visit <https://www.montgomerycollege.edu/documents/counseling-and-advising/advising-worksheets/current-catalog/346a.pdf>

2025-2026

Program Advising Guide

An Academic Reference Tool for Students

346A

FIRE AND EMERGENCY SERVICES MANAGEMENT AAS, STATEWIDE PROGRAM:

346A

ASSOCIATE OF APPLIED SCIENCE: 346A

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Suggested Course Sequence

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

First Semester

ENGL 101 - Introduction to College Writing *3 semester hours* (ENGF)
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*
PSYC 100 - General Psychology *3 semester hours* (BSSD)
LIBR 110 - Fundamentals of Library Research *1 semester hour*

Third Semester

COMM 108 - Foundations of Human Communication *3 semester hours* (GEEL)
OR
COMM 112 - Business and Professional Speech Communication *3 semester hours* (GEEL)
FIRE 202 - Fire Protection Hydraulics and Water Supply *3 semester hours*
Arts or Humanities Distribution *3 semester hours* (ARTD or HUMD)
Natural Sciences Distribution With Lab *4 semester hours* (NSLD)
General Education Elective *3 semester hours* (GEEL) **

Second Semester

English Foundation *3 semester hours* (ENGF)
Mathematics Foundation *3 semester hours* (MATF)
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*
PHED 166 - Personal Fitness I *1 semester hour*
OR
PHED 170 - Strength Training and Conditioning I *1 semester hour*

Fourth Semester

EMGT 101 - Principles of Emergency Management *3 semester hours*
FIRE 203 - Principles of Fire and Emergency Service Administration *3 semester hours*
HLTH 220 - Emergency Medical Responder *3 semester hours*
FIRE Elective (200 Level) *3 semester hours*

Total Credit Hours: 60

* ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective.

** COMM courses may not be used to satisfy the GEEL requirement.

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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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