Program Description

(R, TP/SS): 346A

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.

Program Outcomes

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

- Demonstrate understanding 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

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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
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 *
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
LIBR 110 - Fundamentals of Library Research 1 semester hour
PSYC 102 - General Psychology 3 semester hours (BSSD)

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 Science Elective (200 Level) 3 semester hours

Total Credit Hours: 60
* ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective.
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.

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.emsicareercoach.com

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