

HVAC AREA OF CONCENTRATION, BUILDING TRADES TECHNOLOGY AAS

Total Credits: 60

Catalog Edition: 2025-2026

Program Description

(R): 308C

This program is intended to prepare students for careers in the building and construction trades. The General Education courses, in conjunction with specialized courses, provide a broad foundation and sharpen students' skills in preparation for entry into or advancement in today's workplace. This curriculum, following the HVAC area of concentration, provides training, skills, and knowledge that prepares students for employment as HVAC technicians or provides current building and construction professionals with essential HVAC technician skills. In order to receive the AAS, HVAC area of concentration students must pass the E.P.A. 608 Certification Exam and at least one Industry Competency Exam (ICE).

Program Outcomes

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

- Define and explain the basic principles and techniques of residential construction.
- Apply relevant construction skills in a particular trade area.

Program Advisors

Rockville

- Prof. Martin Kang, 240-567-4050,
Murim.Kang@montgomerycollege.edu

For more information, please visit <https://www.montgomerycollege.edu/academics/programs/building-trades-technology/building-trades-aas-degree-hvac.html>

2025-2026

Program Advising Guide

An Academic Reference Tool for Students

308C

HVAC AREA OF CONCENTRATION, BUILDING TRADES TECHNOLOGY
ASSOCIATE OF APPLIED SCIENCE: 308C

HVAC AREA OF CONCENTRATION, BUILDING TRADES TECHNOLOGY AAS

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)

BLDG 130 - Introduction to the Building Trades *3 semester hours*

BLDG 133 - Building Trades Blueprint Reading *3 semester hours*

BLDG 170 - Fundamentals of Refrigeration *4 semester hours*

General Education Elective *3 semester hours (GEEL)*

Third Semester

BLDG 271 - Heating Systems *4 semester hours*

BLDG 273 - Air Conditioning and Heat Pump Systems *4 semester hours*

Arts or Humanities Distribution *3 semester hours (ARTD or HUMD)*

Program Elective *3 semester hours †*

Second Semester

English Foundation *3 semester hours (ENGF)*

Mathematics Foundation *3 semester hours (MATF)*

BLDG 172 - HVAC Electricity *4 semester hours*

BLDG 174 - HVAC Technician Development *2 semester hours*

Program Elective *3 semester hours †*

EPA 608 Certification Exam

Fourth Semester

BLDG 275 - Residential HVAC System Design *2 semester hours*

Behavioral and Social Sciences Distribution *3 semester hours (BSSD)*

Natural Sciences Distribution with Lab *4 semester hours (NSLD)*

General Education Elective *3 semester hours (GEEL)*

Program Elective *3 semester hours †*

Industry Competency Exam *0 semester hours*

Total Credit Hours: 60

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

† Select from ARCH 103, ARCH 183, BLDG 140, BLDG 150, BLDG 160, BLDG 182, BLDG 184, BLDG 200 (1-3 credits,) BLDG 230, BLDG 250, BLDG 252, BLDG 256, BSAD 101, CMGT 100, CMGT 135, CMGT 280, or SPAN 101.

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.

Energy Auditor, Heating and Air Conditioning Mechanics and Installer, Refrigeration Mechanic and Installer, Home Appliance Repairer.

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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