



Monroe Community College

STATE UNIVERSITY OF NEW YORK

Inspiring every day.



SCHOOL OF APPLIED SCIENCES & TECHNOLOGIES

Air Conditioning Technology: Heating and Ventilation A.A.S.

DEVELOP THE PROFESSIONAL SKILLS YOU NEED FOR SUCCESS IN A GROWING INDUSTRY. Technology for climate control and energy efficiency is advancing rapidly—and so are career opportunities in this industry. In MCC's Air Conditioning Technology associate degree program, you'll get practical, hands-on training in all aspects of heating, ventilation, and air conditioning. You'll also learn about green technologies such as solar, while working in state-of-the-art labs designed and built by Siemens Energy Management. Build skills that can help you get started in the workforce—or spark professional growth if you're already employed in the industry.

PROGRAM DESCRIPTION

This career-oriented two-year program is designed to provide quick, affordable preparation for the Air Conditioning Technology associate degree. It emphasizes practical application of HVAC systems. Coursework covers motors, electronics, pumps, ventilation, and refrigeration technologies, along with applied mathematics and science. You'll also develop core competencies such as plumbing, electrical, and carpentry.

The program has benefits for people who are just entering the workforce, as well as those who already work in the industry and seek to increase their skills and potential earning power.

A STRONG START—ACADEMICALLY AND FINANCIALLY!

MCC's low tuition plus financial aid opportunities help make a high-quality education affordable. You could qualify for federal grants, workforce grants, scholarships, and more.

Visit www.monroecc.edu/go/finaid or call 585.292.2050.

APPLY TODAY!

To learn more about MCC, visit us on the web at www.monroecc.edu. Apply today at admissions.monroecc.edu or contact the Admissions Office at 585.292.2200 to schedule a visit.

WHERE WILL YOU GO?

Start your career with employers like these:

- John Betlem Heating & Cooling
- ULT Services, LLC
- Berkshire Solar, Wind, Heating and Cooling
- Isaac Heating & Cooling
- Hawn Heating & Cooling
- Siemens Energy Management
- Airquip Heating and Air Conditioning

Your job title could be:

- Refrigeration Mechanic and Installer
- Home Appliance Repairer
- Service Technician
- Systems Detailer/Designer
- Refrigeration Technician
- Construction and Building Inspector
- Facilities Maintenance Technician

“Climate control technology is needed everywhere—from homes to offices to manufacturing facilities.”

– Kevin French
MCC Applied Technologies

CURRICULUM OVERVIEW

AIR CONDITIONING TECHNOLOGY: HEATING AND VENTILATION A.A.S.

This program's design is based on: New MCC General Education

Distribution Requirements	Credit Hours
FIRST SEMESTER	
MTH 135 Introduction to Technical Mathematics OR higher*	4
HVA 101 Basic Refrigeration Theory	3
HVA 103 - Heating Systems	3
HVA 105 Electric and Motor Controls	3
PROGRAM ELECTIVE#	3
First Semester Total:	16
SECOND SEMESTER	
HVA 102 Air Conditioning Theory	3
HVA 104 Commercial Air Conditioning and Heat Pumps	3
HVA 106 HVAC Workplace Training	3
PHY 100 Preparatory Physics	4
PROGRAM ELECTIVE#	3
Second Semester Total:	16
THIRD SEMESTER	
ENG 101 College Composition OR ENG 200 Advanced Composition	3
PROGRAM ELECTIVE#	3
PROGRAM ELECTIVE#	3
PROGRAM ELECTIVE#	3-4
MCC GENERAL EDUCATION - HEATH AND WELLNESS (MCC-HW) ELECTIVE	2
Third Semester Total:	14-15
FOURTH SEMESTER	
ECO 103 Personal Money Management	3
SOC 101 Introduction to Sociology	3
SPC 141 Interpersonal Speech Communication OR SPC 142 Public Speaking	3
OPEN ELECTIVE## OR PROGRAM ELECTIVE#	3-4
PROGRAM ELECTIVE#	3-4
Fourth Semester Total:	15-17
TOTAL CREDITS:	61-64

* Course selected must be any MTH course numbered 135 or higher that also qualifies for MCC-QL, except for MTH 150, 156.

Choose any HVA course numbered 200 or higher (except for HVA 209), OR STT 101,102, 201

Choose from: CRC 101; ELT 121, 130; MET 101

Revised 07/26/2018