



Air Conditioning and Refrigeration Technology

ASSOCIATE DEGREE

Program Code: 10-601-1

Oak Creek Campus

Ensure comfortable environments in homes and businesses. Students attain a background in mathematics, drafting, electricity and thermodynamics. Co-op credit may be available for appropriate employment opportunities.

Career Outlook

There is a steady demand for trained air conditioning and refrigeration technicians.

Program Learning Outcomes

- Install HVAC/R components
- Service HVAC/R systems
- Troubleshoot HVAC/R systems
- Evaluate HVAC/R system designs

Admission Requirements

- A high school diploma or GED
- One year of high school-level algebra



matc.edu/academic_programs/pathways

The Refrigeration, Air Conditioning and Heating Service Technician technical diploma ladders into this associate degree program. Contact an MATC advisor for information.

 **MILWAUKEE AREA *Technical College***
School of **TECHNOLOGY** and **APPLIED SCIENCES**

TECHNICAL STUDIES

Credits

(1) HVAC2-109	Introduction to the HVAC Industry.....	1
(1) HVAC2-110	Air Conditioning Fundamentals.....	3
(1) HVAC2-113	Electrical Fundamentals	3
(1) HVAC2-132	Architectural and Mechanical Fundamentals.....	4
(2) HVAC2-114	Electrical Controls and Systems ‡	4
(2) HVAC2-115	Refrigeration 1 ‡.....	4
(2) HVAC2-120	Heating Systems 1 ‡	4
(3) HVAC2-116	Refrigeration 2 ‡.....	4
(3) HVAC2-121	Heating Systems 2 ‡	4
(3) HVAC2-146	Digital Energy Management Systems ‡..	2
(3) HVAC2-148	Heat Pumps ‡	3
(4) HVAC2-125	Control Application and Circuits ‡.....	4
(4) HVAC2-126	Air Conditioning Systems ‡.....	3
(4) HVAC2-144	Servicing and Troubleshooting Refrigeration and Air Conditioning ‡..	3

GENERAL STUDIES

ECON-195	Economics.....	3
	(or) Any 200-series ECON course	
ENG-151	Communication Skills 1 ‡.....	3
(& ENG-152	Communication Skills 2 ‡.....	3
	(or) ENG-201‡ and any 200-series ENG course	
MATH-107	College Mathematics ‡	3
	(or) Any 200-series MATH course	
NATSCI-169	Energy in Nature, Technology and Society.....	3
	(or) Any 200-series NATSCI course	
PSYCH-199	Psychology of Human Relations	3
	(or) Any 200-series PSYCH course	
SOCSCI-197	Contemporary American Society	3
	(or) Any 200-series SOCSCI course	
ELECTIVES	(Three credits needed)	3

TOTAL CREDITS: 70

() Semester order for full-time students.

‡ Prerequisite required.

Program curriculum requirements are subject to change.

This Associate in Applied Science program will transfer to one or more four-year institutions.

Official Wisconsin Technical College System program title: Air Conditioning, Heating and Refrigeration Technology.

Current MATC students should consult their Academic Program Plan for specific curriculum requirements.

For complete information, go to matc.edu/tas

To apply for financial aid, visit fafsa.gov
School Code: 003866

Possible Careers

- Air Conditioning Technician
- Refrigeration Technician
- Sales Representative
- System Design Technician
- System Designer
- System Supervisor

Related Programs

- Appliance Technician
- Refrigeration, Air Conditioning and Heating Service Technician
- Preparatory Plumbing



10% Post Consumer Recycled



matc.edu or 414-297-MATC
Wisconsin Relay System 711

Downtown Milwaukee Campus

700 West State Street

Mequon Campus

5555 West Highland Road

Oak Creek Campus

6665 South Howell Avenue

West Allis Campus

1200 South 71st Street

MATC Education Center at Walker's Square

816 West National Avenue, Milwaukee