Manufacturing, Construction & Transportation Academic & Career Pathway

Air Conditioning and Refrigeration Technology

PROGRAM CODE: **10-601-1**

AD
Associate Degree

Location: Oak Creek Campus

Start Dates: August and January

Admission Requirement: High school diploma or equivalent

Academic Preparedness Requirement: One year of high school-level algebra

Financial Aid Eligible: Yes. Use code 003866 at fafsa.gov.
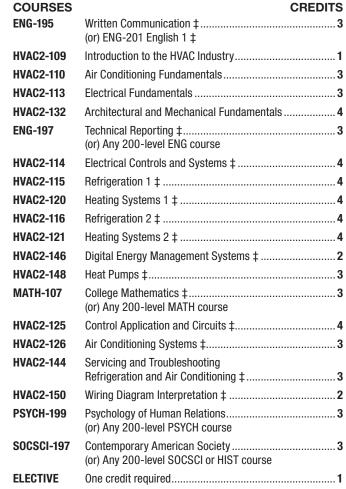
Program Description

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.

Complete Program Details
QUESTIONS? 414-297-8901 or mctpathway@matc.edu

COURSES		CREDITS
ENG-195	Written Communication ‡ (or) ENG-201 English 1 ‡	3
HVAC2-109	Introduction to the HVAC Industry	1
HVAC2-110	Air Conditioning Fundamentals	3
HVAC2-113	Electrical Fundamentals	3
HVAC2-132	Architectural and Mechanical Fundamentals	4
ENG-197	Technical Reporting ‡ (or) Any 200-level ENG course	3
HVAC2-114	Electrical Controls and Systems ‡	4
HVAC2-115	Refrigeration 1 ‡	4
HVAC2-120	Heating Systems 1 ‡	4
HVAC2-116	Refrigeration 2 ‡	4
HVAC2-121	Heating Systems 2 ‡	4
HVAC2-146	Digital Energy Management Systems ‡	2
HVAC2-148	Heat Pumps ‡	3
MATH-107	College Mathematics ‡ (or) Any 200-level MATH course	3
HVAC2-125	Control Application and Circuits ‡	4
HVAC2-126	Air Conditioning Systems ‡	3
HVAC2-144	Servicing and Troubleshooting Refrigeration and Air Conditioning ‡	3
HVAC2-150	Wiring Diagram Interpretation ‡	2
PSYCH-199	Psychology of Human Relations (or) Any 200-level PSYCH course	3
SOCSCI-197	Contemporary American Society (or) Any 200-level SOCSCI or HIST course	3
ELECTIVE	One credit required	1

CREDITS
Total credits needed to complete this degree

64

‡ Prerequisite required.

Program curriculum requirements are subject to change.

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.

MATC courses are offered in person, entirely online or partially online. Check each course's delivery options in Self-Service at **selfservice.matc.edu**.

This program is accredited by HVAC Excellence, P.O. Box 521, Mt. Prospect, IL 60056; 800-726-9696; escogroup.org/accreditation.