

Career-Technical Education Advanced Technical Certificate Degree Plan

HEATING, VENTILATION & AIR COND. PROGRAM CHECK SHEET | HVAC Major | CIP Code: 47.0201

Moorhead Campus

Heating, Ventilation, Air Conditioning, & Refrigeration is a program of study that prepares individuals to work in engineering departments or private firms installing, maintaining, and operating small or medium air conditioning, heating, and refrigeration systems.

Admission Requirements

Students must submit a composite score of 14 or higher on the ACT. Students who do not have an ACT score, must score at the 9th grade level or higher on the TABE, Form 9/10 to be admitted to the program. Exceptions may be made with instructor permission for students who do not meet entrance requirements. Students who are returning to the program after an absence of a semester or more must graduate under the current catalog requirements.

Rev. 2026

REQUIRED COURSES:		Prev. Taken	FALL 20__	SPRING 20__	FALL 20__	SPRING 20__
FIRST SEMESTER FRESHMAN						
ACT 1003 Intro to Heating and Air Conditioning Technology	3 hrs.					
ACT 1124 Basic Compression Refrigeration	4 hrs.					
ACT 1133 Brazing & Piping	4 hrs.					
ACT 1713 Electricity for HVAC/R	3 hrs.					
SECOND SEMESTER FRESHMAN						
ACT 1313 Refrigeration System Components	3 hrs.					
ACT 1215 Controls	5 hrs.					
ACT 2415 Air Conditioning I	5 hrs.					
ACT 2433 Refrigerant, Retrofit, & Regulations	3 hrs.					
FIRST SEMESTER SOPHOMORE						
ACT 2425 Air Conditioning II	5 hrs.					
ACT 2514 Heating Systems	4 hrs.					
SECOND SEMESTER SOPHOMORE						
ACT 2325 Commercial Refrigeration	5 hrs.					
ACT 2624 Heat Load Calculation & Air Properties	4 hrs.					
RECOMMENDED ELECTIVES:						
ACT 2913 Special Projects	3 hrs.					
ACT 292(1-6) Supervised Work Experience	1-6 hrs.					
LLS 1723 Employment Readiness	3 hrs.					
TOTAL HOURS:	48 HRS.					
NOT ALL COURSES ARE REQUIRED IF TRANSFERRING TO AN INSTITUTION OF HIGHER LEARNING.	Total Hours 48					
	Advisor Initials					
	Date					