

# Career-Technical Education Associate of Applied Science 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 9<sup>th</sup> 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.

<b>REQUIRED COURSES:</b>		<b>Prev. Taken</b>	<b>FALL 20__</b>	<b>SPRING 20__</b>	<b>FALL 20__</b>	<b>SPRING 20__</b>
<b>FIRST SEMESTER FRESHMAN</b>						
ACT 1003 Intro to Heating and Air Conditioning Technology	3 hrs.					
ACT 1124 Basic Compression Refrigeration	4 hrs.					
ACT 1134 Brazing & Piping	4 hrs.					
ACT 1713 Electricity for HVAC/R	3 hrs.					
Humanities/Fine Arts Elective (HIS, ENG Literature, ART 1113, or MUS 1113)	3 hrs.					
<b>SECOND SEMESTER FRESHMAN</b>						
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.					
<b>FIRST SEMESTER SOPHOMORE</b>						
ACT 2425 Air Conditioning II	5 hrs.					
ACT 2514 Heating Systems	4 hrs.					
Math/Natural Science Elective (MAT, BIO, CHE, or PHY)	3 hrs.					
SPT/COM 1113 Public Speaking	3 hrs.					
<b>SECOND SEMESTER SOPHOMORE</b>						
ACT 2325 Commercial Refrigeration	5 hrs.					
ACT 2624 Heat Load Calculation & Air Properties	4 hrs.					
ENG 1113 Composition or ENG 1033 Technical English	3 hrs.					
Social/Behavioral Science Elective (SOC 2113 or PSY 1513)	3 hrs.					
<b>TOTAL HOURS:</b>	<b>63 HRS.</b>					
<b>NOT ALL COURSES ARE REQUIRED IF TRANSFERRING TO AN INSTITUTION OF HIGHER LEARNING.</b>	<b>Total Hours 63</b>					
	<b>Advisor Initials</b>					
	<b>Date</b>					