

# Heating, Ventilation and Air Conditioning

In the heating, ventilation, and air conditioning program, students study the physical, mechanical, and chemical principles of refrigeration and air conditioning, with emphasis on electrical controls and motors. Students gain proficiency in blueprint reading, sheet metal construction, proper ventilation installation, heating and cooling diagnosis, and installation of residential and commercial equipment. The program prepares students for skilled positions installing and servicing electrical, heating, and cooling systems.

Northeast Community College and Wayne State College have an agreement that Wayne State will accept up to 66 credit hours from Northeast toward a bachelor of science degree in technology. (Enrollment into this program is limited and is based on the date of application.)

## Required Program of Study for Associate of Applied Science Degree (2 years)

<i><b>Freshman Year</b></i>
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<b>FIRST SEMESTER</b>	
<b>Course</b>	<b>Credits</b>
HVAC 1010 Electricity for HVAC .....	2.5
HVAC 1020 Electricity for HVAC Lab .....	4
HVAC 1110 Basic Refrigeration Principles .....	2.5
HVAC 1120 Basic Refrigeration Principles Lab .....	4
HVAC 1130 Sheet Metal .....	3
MATH 1030 Applied Mathematics I .....	2
	18

<b>SECOND SEMESTER</b>	
<b>Course</b>	<b>Credits</b>
HVAC 1210 HVAC Controls .....	3
HVAC 1220 HVAC Controls Lab .....	4
HVAC 1250 Residential Air Conditioning .....	3
HVAC 1260 Residential Air Conditioning Lab .....	4
MATH 1050 Applied Mathematics II .....	2
INFO 1000 Basic Computer Applications .....	2
	18

<b>REQUIRED SUMMER: 12 weeks</b>	
HVAC 1300 Cooperative Internship I .....	8

<i><b>Sophomore Year</b></i>
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<b>FIRST SEMESTER</b>	
<b>Course</b>	<b>Credits</b>
HVAC 2010 HVAC Technology I .....	2.5
HVAC 2020 HVAC Technology I Lab .....	4
HVAC 2130 Blueprint Reading .....	2
HVAC 2140 Residential Heat Load Calculations .....	1
HVAC 2210 HVAC Technology II .....	2.5
HVAC 2220 HVAC Technology II Lab .....	4
ECON 1010 Personal and Business Finance .....	2
	18

<b>SECOND SEMESTER</b>	
<b>Course</b>	<b>Credits</b>
HVAC 2110 Commercial Refrigeration .....	3
HVAC 2120 Commercial Refrigeration Lab .....	4
HVAC 2310 Commercial Air Conditioning & Refrigeration .....	3
HVAC 2320 Commercial Air Conditioning & Refrigeration Lab .....	4
ENGL 1050 Career Composition .....	3
PSYC 1000 Human Relations .....	2
	19

<b>Total Credit Hours</b>	<b>81</b>
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