

# Heating, Ventilation, Air Conditioning, & Refrigeration

The heating, ventilation, air conditioning, and refrigeration program is one of the most established and respected programs within the heating, ventilation, air conditioning, and refrigeration discipline. It is a computer-based program in which heating, ventilation, air conditioning, and refrigeration theory and practice receive equal emphasis as applied to both financial and managerial heating, ventilation, air conditioning, and refrigeration issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's heating, ventilation, air conditioning, and refrigeration workplace:

- Technical heating, ventilation, air conditioning, and refrigeration knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the heating, ventilation, air conditioning, and refrigeration program.

## Courses

Course Number	Course Title	Credits
HVACR 1100	Refrigeration Principles	3 Credits
HVACR 1105	Intro to Safety, Materials & Equipment	3 Credits
HVACR 1108	Refrigerant Certification	1 Credits
HVACR 1110	Introduction to Controls	3 Credits
HVACR 1112	Residential Refrigeration	3 Credits
HVACR 1161	Introduction to Sheet Metal	2 Credits
HVACR 1180	Introduction to Heating	5 Credits
HVACR 1186	Introduction to Hydronics	2 Credits
HVACR 1187	Central Heating Plants	3 Credits
HVACR 1827	Selected Topics	1 Credits
HVACR 1840	Independent Study	1-4 Credits
HVACR 2201	Residential Air Conditioning	3 Credits
HVACR 2202	Commercial Air Conditioning	3 Credits
HVACR 2205	Heat Pumps	2 Credits
HVACR 2210	Commercial Refrigeration	5 Credits
HVACR 2220	Installation	3 Credits
HVACR 2225	Troubleshooting Systems	3 Credits
HVACR 2230	Advanced Controls	3 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
HVACR 2231	Direct Digital Control of HVAC Systems	3 Credits
HVACR 2232	Energy Audits/Economics	2 Credits
HVACR 2236	Central Cooling Plants	3 Credits
HVACR 2240	Load Calculations and Duct Design	5 Credits
HVACR 2241	Industrial Air Conditioning Design	3 Credits
HVACR 2250	System Balancing	2 Credits
HVACR 2260	Heating and Air Conditioning Contracting	3 Credits
HVACR 2860	Internship (Career & Technical Ed)	1-4 Credits
HVACR 2862	Internship (career & Technical Ed)	2 Credits
HVACR 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits