

# Heating and Air Conditioning C.A.

Career Community: Building and Construction Trades

Curriculum Code: 0832

Effective: Fall 2025 - Summer 2030

### **Purpose of the Major**

Students will receive instruction on how to install, service, and maintain heating, air conditioning, and refrigeration systems, including sheet metal and electrical, to prepare for entry-level positions. Students completing this certificate may use the credits towards the Heating and Air Conditioning Associate in Applied Science Degree (0836).

### Milestone

Completion of HVAC 100 and HVAC 110 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

#### **Additional Information**

A student must earn a minimum grade of 2.0 in all courses.

If students have already completed DCTM 102 with a grade of 2.0 or higher, that will satisfy the TECH 102 requirement. DCTM 102 will also fulfill the prerequisite for HVAC 110, HVAC 113, and HVAC 115.

#### **Contact Information**

For further information, including career options, course substitutions and waivers, etc., contact the Heating and Air Conditioning Program, West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

# **Major Required Courses**

Course Code	Course Title	Credit/Billing Hours
HVAC 100	Fundamentals of HVAC	3/3
HVAC 110	Applied Electricity I	3 / 4
HVAC 111	Applied Electricity II	3/4
HVAC 113	HVAC/R Piping	3/4
HVAC 115	Sheet Metal Fab & Installation	2/3
HVAC 120	Heating I	3/4
HVAC 130	Air Conditioning I	3/4
HVAC 220	Heating II	3/4
HVAC 221	Introduction to Hydronics	3/4
HVAC 230	Air Conditioning II	3/4

Course Code	Course Title	Credit/Billing Hours
HVAC 240	Refrigeration I	3/4
TECH 102	General Industry Safety	2/3

#### **Additional Credits**

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the <a href="Institutional Requirements for Certificates of Achievement">Institutional Requirements for Certificates of Achievement</a>. Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

### **Minimum Total Credit Hours**

34 credits / 45 billing hours

# **Recommended Course Sequence**

SemesterI
HVAC 100 – Milestone course
HVAC 110 – Milestone course
HVAC 113
HVAC 115
TECH 102

SemesterII	
HVAC 111	
HVAC 120	
HVAC 130	

SemesterIII
HVAC 220
HVAC 221
HVAC 230
HVAC 240

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.