Heating and Air Conditioning C.A.
Curriculum Code: 0832
Effective: Fall 2021 – Summer 2026

Description
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).

Additional Information
Students who have already completed DCTM 102, ELTE 102, METS 102, or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for HVAC 102. Any of these courses may also be used to fulfill the prerequisite for HVAC 110, HVAC 113, and HVAC 115.

Contact Information
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.

Program of Study Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit / Billing Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC 100</td>
<td>Fundamentals of HVAC</td>
<td>3 / 3</td>
</tr>
<tr>
<td>HVAC 102</td>
<td>Industrial/Construction Safety</td>
<td>2 / 3</td>
</tr>
<tr>
<td>HVAC 110</td>
<td>Applied Electricity I</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HVAC 111</td>
<td>Applied Electricity II</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HVAC 113</td>
<td>HVAC/R Piping</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HVAC 115</td>
<td>Sheet Metal Fab &amp; Installation</td>
<td>2 / 3</td>
</tr>
<tr>
<td>HVAC 120</td>
<td>Heating I</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HVAC 130</td>
<td>Air Conditioning I</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HVAC 220</td>
<td>Heating II</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HVAC 221</td>
<td>Introduction to Hydronics</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HVAC 230</td>
<td>Air Conditioning II</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HVAC 240</td>
<td>Refrigeration I</td>
<td>3 / 4</td>
</tr>
</tbody>
</table>

Total Credit Hours
34 credits / 45 billing hours
### Recommended Course Sequence

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Semester II</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC 100</td>
<td>HVAC 111</td>
</tr>
<tr>
<td>HVAC 102</td>
<td>HVAC 120</td>
</tr>
<tr>
<td>HVAC 110</td>
<td>HVAC 130</td>
</tr>
<tr>
<td>HVAC 113</td>
<td></td>
</tr>
<tr>
<td>HVAC 115</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester III</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC 220</td>
</tr>
<tr>
<td>HVAC 221</td>
</tr>
<tr>
<td>HVAC 230</td>
</tr>
<tr>
<td>HVAC 240</td>
</tr>
</tbody>
</table>