

# HVA 1201: Basic HVAC Systems with Cooling

## Credit Type – Proficiency



MIAMI VALLEY  
**TECHPREP**  
CONSORTIUM

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| <b>Course Description and Learning Outcomes:</b>   |
| <a href="https://www.sinclair.edu/course/params/subject/hva/courseNo/1201/">https://www.sinclair.edu/course/params/subject/hva/courseNo/1201/</a>  |
| <b>Faculty Pathway Specialist(s)</b> (Please include name, email, and office hours):   |
| De Dawson, <a href="mailto:delacy.dawson@sinclair.edu">delacy.dawson@sinclair.edu</a> , 937-369-5460. De is an ACF, he has no office hours.  |
| <b>Resources Needed to Offer Course</b> (software, equipment, books [include ISBN and edition], etc. – please include any associated costs):   |
| Refrigeration and Air Conditioning Technology, 10 <sup>th</sup> Ed.<br>ISBN: 978-0-3571-2227-3<br>Hardcopy is about \$185. Other digital options exist at a much lower cost.<br><br>It requires learning the complete complex Refrigeration Cycle in the layout and operation of each part, with a discussion of what the component is doing for the system and how to understand the component purpose for the total refrigeration cycle.<br><br>It also requires teaching basic hand tools and tools needed in the exciting changing world of refrigeration, digital gauge manifolds, and understanding A2L refrigeration requirements.<br><br>An Optional EPA Section 608 Certification test.<br><br><b>Note:</b> This equipment is used in the teaching of HVA-1221 as well. |
| <b>How is the final grade for the course determined?</b> (Please list all required assignments, assessments, etc.)   |
| Homework: 30%<br>Test: 35%<br>Attendance: 5%<br>Lab: 10%<br>Quizzes: 20%   |
| <b>Who is responsible for grading the required assignments and/or assessments?</b> (faculty or instructor?)  |
| High School Instructor   |
| <b>What is the grading scale for the course?</b>   |
| A 90-100<br>B 80-90<br>C 70-80<br>D 60-70<br>F 50-0  |

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| <b>Must students access the eLearn shell regularly to complete requirements?</b>  |
| No, Student must access eLearn to complete Permission to Post credit  |
| <b>Does the course require access to YouTube, Google Drive, etc.?</b>   |
| Sometimes used in class, not required.  |
| <b>Additional course details or requirements important for instructors not covered above:</b>   |
| None  |
| <b>Most common (or popular) degrees this course is in?</b>  |
| Heating, Ventilating, Air Conditioning & Refrigeration (HVACR) Technology HVACR.S.AAS<br>Sustainability and Energy Management Technology EGMT.S.ATS |