

HVA 1201: Basic HVAC Systems with Cooling  
Credit Type – Proficiency



MIAMI VALLEY  
**TECHPREP**  
CONSORTIUM

<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, 9 <sup>th</sup> Ed. ISBN: 978-0-3571-2227-3 Hardcopy is about \$185. Other digital options exist at a much lower cost.  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. Requires teaching Basic Hand Tools and tools needed in the exciting changing world of Refrigeration, digital gauge manifolds, and Understanding of the A2L refrigeration requirements.  <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% Test: 35% Attendance: 5% Lab: 10% 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 B 80-90 C 70-80 D 60-70 F 50-0
<b>Must students access the eLearn shell regularly to complete requirements?</b>
Yes

<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>
Sustainability and Energy Management Technology EGMT.S.ATS