

 	ONE-YEAR CERTIFICATE HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY	2024-25 Catalog Effective Summer 2024
	<i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.</i>	4501

Business, Engineering, and Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HVC121	HVAC Principles I	3		
HVC122	HVAC Principles II	3	Pre-Co-HVC121	
HVC125	Sheet Metal Layout and Fabrication	4		
HVC223	HVAC System Operation and Troubleshooting – Heating	3	HVC122	
HVC224	HVAC System Operation and Troubleshooting – Cooling	3	HVC122	
HVC227	HVAC Field Installation Techniques and Procedures	4	Pre-Co-HVC122	
HVC234	HVAC Electrical Systems and Applications [^]	3		
Total		23		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
AIT101	Basic Machines ^{^^}	2	<i>Take first semester</i>	
MST126	Pipefitting Principles and Applications	3		
NON-TECH ELECTIVES: 2 credit hours minimum (choose one)				
CET121	Building Materials and Construction Methods	3		
ENV231	OSHA 30-Hour General Industry	2		
MST121	Blueprint Reading	2		
Total		8-9		
TOTAL CREDIT HOURS		31-32		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

Students completing this degree may be eligible to also receive a Heating, Ventilation, Air Conditioning, and Refrigeration Technology – HVACR Technician (Level I) (4505).

The classes in this certificate also apply toward the completion of a Heating, Ventilation, Air Conditioning, and Refrigeration Technology Degree (4500).

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>	<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101 Student Success Seminar^^	1	<i>Take first semester</i>
AIT101 Basic Machines^^	2	<i>Take first semester</i>
HVC121 HVAC Principles I	3	
HVC122 HVAC Principles II	3	Pre-Co-HVC121
MST126 Pipefitting Principles and Applications	3	
<i>Non-Technical Elective²</i>	<u>2-3</u>	
	14-15	
 <u>Second Semester</u>		
HVC125 Sheet Metal Layout and Fabrication	4	
HVC223 HVAC System Operation and Troubleshooting – Heating	3	HVC122
HVC224 HVAC System Operation and Troubleshooting – Cooling	3	HVC122
HVC227 HVAC Field Installation Techniques and Procedures	4	Pre-Co-HVC122
HVC234 HVAC Electrical Systems and Applications^	<u>3</u>	
	17	
TOTAL CREDITS	31-32	

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

²Non-Technical Electives: CET121, ENV231, MST121