

 	<p style="text-align: center;">ASSOCIATE OF APPLIED SCIENCE</p> <p style="text-align: center;">HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY</p> <p style="text-align: center;"><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></p>	<p style="text-align: center;">2025-26 Catalog</p> <p style="text-align: center;">Effective Summer 2025</p> <p style="text-align: center; font-size: 2em;">4500</p>
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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		
HVC222	HVAC Design and Application	3	HVC122	
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		
TECHNICAL ELECTIVES: 6 credit hours minimum				
HVC232	Hydronic Applications and Design	3	HVC122	
HVC235	Refrigeration	3	HVC122	
HVC237	HVAC Commercial Controls	3	HVC122	
HVC238	Chiller Operations	3	HVC122	
Total		32		
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>	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
PHY101	Principles of Physics (lab) [^]	4	(MTH024 or MTH025 or Proficiency) or MTH105 or MTH107 and (IDS102 or Proficiency)	
MTH107 or MTH125	Industrial Math [^] or College Algebra [^] Ω	3 or 4	<i>Check for prerequisites</i>	
ENG124	College Composition [^]	3	Co-ENG024 or Co-ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
COM121 or COM123	Effective Speaking or Small Group Communication [^]	3 or 3	None or IDS102 or Proficiency	
	<i>Select one (1) Social & Behavioral Sciences or Arts & Humanities Elective³</i>	3	<i>Check for prerequisites</i>	
NON-TECH ELECTIVES: 7 credit hours minimum				
CET121	Building Materials and Construction Methods	3		
DET125	Basic AutoCAD	3		
ENV231	OSHA 30-Hour General Industry	2		
MST121	Blueprint Reading	2		
MST126	Pipefitting Principles and Applications	3		
Total		32-33		
TOTAL CREDIT HOURS		64-65		

See next page for footnote specifics

Students completing this degree may be eligible to also receive a Heating, Ventilation, Air Conditioning, and Refrigeration Technology – HVACR Technician (Level I) Career Enhancement Certificate (4505), Heating, Ventilation, Air Conditioning, and Refrigeration Technology – HVACR Technician (Level II) Career Enhancement Certificate (4506), and a Heating, Ventilation, Air Conditioning, and Refrigeration Technology One-Year Certificate (4501).

2025-26 Catalog Effective Summer 2025	HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY	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 full-time associate degree students who plan to finish in two years.

<u>First Semester</u>	<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101 Student Success Seminar^^	1	<i>Take first semester</i>
AIT101 Basic Machines^^	2	<i>Take first semester</i>
MTH107 Industrial Math^	3	<i>Check for prerequisites</i>
or	or	
MTH125 College Algebra^ Ω	4	
HVC121 HVAC Principles I	3	Pre-Co-HVC121
HVC122 HVAC Principles II	3	
HVC125 Sheet Metal Layout and Fabrication	<u>4</u>	
	16-17	
<u>Second Semester</u>		
ENG124 College Composition^	3	Co-ENG024 or Co-ENG011 or Proficiency
ITD122 Computer Applications for Professionals^	3	ITD100 or Proficiency
HVC227 HVAC Field Installation Techniques and Procedures	4	Pre-Co-HVC122
HVC234 HVAC Electrical Systems and Applications^	3	<i>Check for prerequisites</i>
<i>Non-Technical Elective</i> ²	<u>2</u>	
	15	
<u>Third Semester</u>		
COM121 Effective Speaking	3	IDS102 or Proficiency
or	or	
COM123 Small Group Communication^	3	
HVC222 HVAC Design and Application	3	HVC122
HVC223 HVAC System Operation and Troubleshooting – Heating	3	HVC122
HVC224 HVAC System Operation and Troubleshooting – Cooling	3	HVC122
<i>Non-Technical Elective</i> ²	2	<i>Check for prerequisites</i>
<i>Social & Behavioral Sciences or Arts & Humanities Elective</i> ³	<u>3</u>	<i>Check for prerequisites</i>
	17	
<u>Fourth Semester</u>		
ENG221 Technical Report Writing	3	ENG124
PHY101 Principles of Physics (lab)^	4	(MTH024 or MTH025 or Proficiency) or MTH105 or MTH107 and (IDS102 or Proficiency)
<i>Non-Technical Elective</i> ²	3	<i>Check for prerequisites</i>
<i>Technical Electives</i> ¹	<u>6</u>	<i>Check for prerequisites</i>
	16	
TOTAL CREDITS	64-65	

^Based on SSC placement scores

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

ΩMTH125 should only be taken by students planning to transfer to a four-year institution

¹Technical Electives: HVC232, HVC235, HVC237, HVC238

²Non-technical Electives: CET121, DET125, ENV231, MST121, MST126

³Social & Behavioral Sciences or Arts & Humanities electives: BUS122 (recommended), BUS221, BUS222, ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, PHL122 (recommended), PSC121, PSY121, PSY123, PSY124, PSY220, PSY221, SOC121, SOC122, SOC123, SOC221, SOC225