

# Heating, Ventilation, & Air Conditioning Academic Degree Map

Associate of Applied Science



Year 1 – Fall Semester			
Course Code	Course Title	Credits	Notes
HVA 103	Safety Orientation / OSHA 10	1	
HVA 1044	HVAC Fundamentals	4	Prerequisite(s): Co-requisite: HVA 103 OSHA 10.
HVA 1104	Electrical Fundamentals	4	
HVA 120	Domestic Refrigeration	3	Prerequisite(s): HVA 103 & HVA 1044.
HVA 140	Heating System Fundamentals	3	Prerequisite(s): HVA 103 & HVA 1104.
HVA 170	Design and Blueprint Reading	3	Prerequisite(s): HVA 103 OSHA, HVA 1044, and HVA 140.
	Math Option <sup>1</sup>	3	Based upon placement testing requirements.
<b>CREDIT HOURS SUBTOTAL</b>		<b>21</b>	
Year 1 – Spring Semester			
Course Code	Course Title	Credits	Notes
HVA 130	Controls and Motors	3	Prerequisite(s): HVA 104, HVA 110, HVA 120, HVA 140.
HVA 150	Cooling	3	Prerequisite(s): HVA 104, HVA 110, HVA 120, HVA 170.
HVA 151	Advanced Refrigeration	3	Prerequisite(s): HVA 104, HVA 110, HVA 120 with a grade of C or higher or with instructor approval.
HVA 161	EPA 608	1	Prerequisite(s): HVA 1044 & HVA 120 with a grade of C or higher or with instructor approval.
HVA 181	Commercial Refrigeration	3	Prerequisite(s): HVA 104 and HVA 120 with a grade of C or higher or with instructor approval.
HVA 185	Workplace Skills	1	
HVA 199	Occupational Work Experience	2	Prerequisite(s): HVA 181 and faculty recommendation.
	English Option <sup>2</sup>	3	Based upon placement testing requirements.
<b>CREDIT HOURS SUBTOTAL</b>		<b>16</b>	
Year 2 – Fall Semester			
Course Code	Course Title	Credits	Notes
	General Education Elective <sup>3</sup>	3	Recommended general education elective.
	General Education Elective <sup>3</sup>	3	Recommended general education elective.
	General Education Elective <sup>3</sup>	3	Recommended general education elective.
	Technical Elective <sup>4</sup>	3	Suggested technical elective option.
<b>CREDIT HOURS SUBTOTAL</b>		<b>12</b>	
Year 2 – Spring Semester			
Course Code	Course Title	Credits	Notes
	Technical Elective <sup>4</sup>	3	Suggested technical elective option.
	Technical Elective <sup>4</sup>	3	Suggested technical elective option.
	Technical Elective <sup>4</sup>	3	Suggested technical elective option.
<b>CREDIT HOURS SUBTOTAL</b>		<b>9</b>	
<b>TOTAL HOURS IN PROGRAM: 61</b>			

<b>Math Options<sup>1</sup></b>			
<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Notes</b>
MAT 109	Technical Mathematics II	3	Prerequisite(s): Meet placement guidelines OR MAT 101 with a grade of "C" or higher OR MAT 108 with a grade of "C" or higher.
MAT 110	Intermediate Algebra	3	Prerequisite(s): Meet placement guidelines OR MAT 108 Beginning Algebra with a grade of "C" or higher.
MAT 135	College Algebra	3	Prerequisite(s): Meet Placement Guidelines OR MAT 109 with a grade of "C" or better OR MAT 110 with a grade of "C" or better.

<b>English Options<sup>2</sup></b>			
<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Notes</b>
COM 110	Technical Writing	3	Prerequisite(s): Meet placement guidelines.
COM 105	English Composition I	3	Prerequisite(s): Meet placement guidelines.
COM 106	English Composition II	3	.Prerequisite(s): COM 105 with a grade of "C" or higher.

<b>General Education Elective Options<sup>3</sup></b>			
<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Notes</b>
COM 115	Public Speaking	3	
COM 116	Interpersonal Communications	3	Prerequisite(s): Meet placement guidelines.
HIS 106	U.S. History Since 1877	3	
HIS 105	U.S. History to 1877	3	
NTR 105	Nutrition	3	
POL 105	American Government	3	
PSY 100	General Psychology	3	
PSY 125	Human Growth & Development	3	
SOC 100	Intro to Sociology	3	
BSC 110	Biology	5	
BSC 125	Anatomy & Physiology	5	Prerequisite(s): BSC 110 with a "C" or higher or High School Anatomy & Physiology within five years with a "C" or higher and permission of instructor.
BSC 205	Microbiology	5	Prerequisite(s): BSC 110 with a "C" or higher or permission of instructor.
CHM 105	Intro to Chemistry -- KRSN CHM1030	5	Prerequisite(s): High school Algebra with "C" or higher.
CHM 110	Chemistry I--KRSN CHM1010	5	Prerequisite(s): Secondary or Post-secondary General Chemistry or Physical Science and Algebra within 5 years with grades of C or higher.
MAT 145	Elementary Statistics	3	Prerequisite(s): Meet placement guidelines OR MAT 109 with a grade of "C" or better OR MAT 110 with a grade of "C" or better.
MAT 155	Trigonometry	3	Prerequisite(s): MAT 135 College Algebra with a grade of "C" or higher.
MAT 101	Technical Mathematics I	3	Prerequisite(s): Meet placement guidelines.
MAT 109	Technical Mathematics II	3	Prerequisite(s): Meet placement guidelines OR MAT 101 with a grade of "C" or higher OR MAT 108 with a grade of "C" or higher.
COM 110	Technical Writing	3	Prerequisite(s): Meet placement guidelines.
PHY 100	General Physics	3	Prerequisite(s): Intermediate algebra.
COM 106	English Composition II	3	Prerequisite(s): COM 105 with a grade of C or higher.
CIS 100	Software Applications	3	

<b>Technical Elective Options<sup>4</sup></b>			
<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Notes</b>
ACC 100	Business Accounting	3	
BUS 111	Personal Finance	3	
BUS 126	Introduction to Business	3	
BUS 185	Business Ethnics & Human Relations	3	
BUS 255	Principles of Management	3	
CRT 100	Principles of Information Assurance	1	