

**HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION  
ENGINEERING TECHNOLOGY  
Associate of Applied Science • 62 Credit Hours • Program Code: HVACR.S.AAS**

**Semester 1 - Fall**

Subject Code	Course Number	Course Title	Credit Hours	Pre-requisites
CAT	1111	Mechanical Systems Blueprint Reading	1	DEV 0010 & DEV 0024 & DEV 0032
EET	1120	Introduction to DC & AC Circuits	2	DEV 0024
HVA	1201	Basic HVAC Systems with Cooling	3	DEV 0024 or Placement Test
HVA	1221	Heating Systems	3	None
MAT	1580	Precalculus	5	MAT 1290 or Placement Test
MET	1131	PC Applications for Engineering Technology	1	DEV 0012 & DEV 0022
<b>Total</b>			<b>15</b>	

**Semester 2 - Spring**

Subject Code	Course Number	Course Title	Credit Hours	Pre-requisites
COM	2211	Effective Public Speaking	3	DEV 0012 & DEV 0032
EET	1139	Electrical Machinery	3	EET 1120
ENG	1101	English Composition I	3	DEV 0032 or DEV 0044
HVA	1301	Air & Water Distribution Systems	3	MET1131 & MAT 1270 & HVA 1201
HVA	1351	Building Psychrometrics & Load Calculations	3	MET 1131 & HVA 1201 & MAT 1270
<b>Total</b>			<b>15</b>	

**Semester 3 - Summer**

Subject Code	Course Number	Course Title	Credit Hours	Pre-requisites
OTM		Social & Behavioral Sciences Elective (PLS1120 American Govt. Recommended)	3	None
<b>Total</b>			<b>3</b>	

**Semester 4 - Fall**

Subject Code	Course Number	Course Title	Credit Hours	Pre-requisites
CAT	1131	Introduction to Revit MEP	3	CAT 1101 or CAT 1111 or CAT 1121
HVA		HVACR Technology Elective	2	See Back Page
HVA	2251	Primary HVAC Equip. Operation & Selection	3	HVA 1221 & HVA 1301 & EET1139
HVA	2351	HVAC Systems & Controls	6	HVA 1301 & HVA 1351 & EET1139
<b>Total</b>			<b>14</b>	

**Semester 5 - Spring**

Subject Code	Course Number	Course Title	Credit Hours	Pre-requisites
HVA	1241	HVAC Installation Techniques & Practices	4	HVA 1201
HVA	1401	HVAC Mechanical & Electrical Troubleshooting	3	HVA 1201 & HVA 1221 & EET 1120
HVA	2780	HVACR Applications Capstone Project	3	ETD Department Approval
MET	2711	Ethics for Engineering Technology Professionals	1	None
PHY	1141	College Physics I	4	MAT 1470 or MAT 1580
<b>Total</b>			<b>15</b>	

## HVACR Technology Electives

<b>Subject Code</b>	<b>Course Number</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Pre-requisites</b>
EGV	1301	Architectural Energy Analysis	2	None
EGV	1351	Building Performance Training	2	None
EGV	2301	Commercial & Industrial Assessment	3	None
EGV	2351	LEED Green Associate Exam Preparation	2	None
<b>HVA</b>	<b>2700</b>	<b>HVACR Technology Internship (Preferred)</b>	<b>2</b>	<b>None</b>