

**PROGRAM REQUIREMENTS**

www.cvtc.edu - 1-800-547-2882

START DATE(S): January, August	EFFECTIVE: January 2024
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**AIR CONDITIONING, HEATING AND REFRIGERATION TECHNICIAN**  
*Technical Diploma*

Course Number	Course Title	Hrs./Week	Credits	Prerequisite(s)/Comments
<b>First Term</b>				
601-130	Sheet Metal Layout	2	1	
601-140	Electricity Theory	2	1	
601-144	Solar/Wind Applications	4	2	
601-148	Electricity Principles	4	2	601-140 or concurrent
601-163	Residential HVAC Load Calculations	4	2	
801-196	Oral/Interpersonal Communication	3	3	
<b>Total Hrs./Week and Total Credits</b>		<b>19 hrs.</b>	<b>11 cr.</b>	
<b>Second Term</b>				
601-125	Safety – HVAC	2	1	Program student
601-106	Refrigeration Theory	2	1	
601-107	Heating Theory	2	1	
601-108	Principles of Gas Heat and Airflow	4	2	601-107, 601-140, 601-148 or concurrent
601-109	Principles of Oil, Electricity & Hydronic Heating	2	1	601-107, 601-140, 601-148 or concurrent
601-105	Refrigeration Principles	4	2	601-106, 601-140, 601-148 or concurrent
601-116	Principles of Air Conditioning	4	2	601-106, 601-140, 601-148 or concurrent
601-146	Schematic Wiring-HVACR	2	1	601-140, 601-148 or concurrent
601-123	HVCAR Industry Skills 1	2	1	
<b>Total Hrs./Week and Total Credits</b>		<b>24 hrs.</b>	<b>12 cr.</b>	
<b>Third Term</b>				
601-118	Sustainability for HVAC	2	1	Winter Term
601-121	HVAC/R Service & Applications	6	3	Program student, 601-105, 601-106, 601-116
601-122	HVACR Industry Skills 2	2	1	Program student
601-145	Geothermal Applications	2	1	
601-147	Schematic Wiring-Troubleshooting	2	1	601-140, 601-146, 601-148 or concurrent
601-151	Technical Problems-HVAC	4	2	Program student, 601-107, 601-108, 601-109
601-153	Basic Home Automations	2	1	
<b>Total Hrs./Week and Total Credits</b>		<b>20 hrs.</b>	<b>10 cr.</b>	

MINIMUM PROGRAM CREDITS REQUIRED = 33

2.0 MINIMUM PROGRAM CUMULATIVE GPA REQUIRED FOR GRADUATION