Heating, Air Conditioning and Refrigeration (HVACR) Technology Certificate (HACC)

Provides students with an in-depth study of heating, air conditioning, and refrigeration servicing, as well as plant maintenance of electrical and mechanical control systems.

All courses in the certificate program can be applied to the HVACR A.A.S. degree program.

Employment opportunities include installation and service technician for all facets of HVACR equipment, HVACR counter and outside salespersons, and factory service representatives.

Upon successful completion of this program, graduates will be able to:

- join copper using soft and hard soldering techniques. read and draw schematic wiring diagrams.
- evaluate blueprints for residential buildings.
- identify and list the components and their function for the basic refrigeration cycle.
- identify refrigerants by measuring temperature and pressures.
- pass EPA certifications for refrigerant recovery and use.
- install and service typical residential and light commercial HVACR equipment.
- follow the NEC to install residential and light commercial wiring as it relates to the HVACR industry.
- install and service natural and LP gas equipment.
- install and service air-to-air heat pumps.
- practice positive customer relations.

2-Year Sequence

Fall Semester		Credits
HAC 104	Basic Electricity	3
HAC 119	Construction Print Reading	3
HAC 131	Air Conditioning and Refrigeration I	3
		9
Spring Semester		
HAC 132	Air Conditioning and Refrigeration II	3
HAC 140	Electrical Maintenance I	3
HAC 150	Heating Systems	3
		9
Fall Semester		
HAC 135	Domestic Oil Burners	3
HAC 145	Advanced Air Conditioning and Refrigeration	3
HAC 160	Residential Wiring	3
		9
Spring Semester		
HAC 125	Piping and Hydronic Heating	3
HAC 203	Heat Pumps	3
HAC 204	Gas Furnaces	3
		9
	Credit Total	**36**

12-Month Sequence

Fall Semester		Credits
HAC 104	Basic Electricity	3
HAC 119	Construction Print Reading	3
HAC 131	Air Conditioning and Refrigeration I	3
HAC 150	Heating Systems	3
		12
Spring Semester		
HAC 132	Air Conditioning and Refrigeration II	3
HAC 135	Domestic Oil Burners	3
HAC 140	Electrical Maintenance I	3
HAC 204	Gas Furnaces	3
		12
Summer Semester		
HAC 125	Piping and Hydronic Heating	3
HAC 145	Advanced Air Conditioning and Refrigeration	3
HAC 160	Residential Wiring	3
HAC 203	Heat Pumps	3
		12
	Credit Total	**36**