

Associate in Applied Science

Toward a Degree in

Heating and Air Conditioning

Career Curriculum HAC 0095 Minimum Hours: 71 Major Code: 1.2 470201 Effective Date: Fall 2021

FIRST YEAR - FALL SEMESTER

FIRST YEAR - SPRING SEMESTER

Dept. No.

ENG 101

HAC

HAC

HAC

HAC

105

107

122

131

Dept. No.

CMG 107

106

132

222

240

HAC

HAC

HAC

HAC

Dept.	No.		Hrs.	Grade
HAC	102	Residential Electrical Wiring	4	
HAC	121	Heating I	4	
HAC	140	Weatherization	3	
MAT	113	Introduction to Contemporary	3	
		Mathematics OR		
		MAT 115 Applied Mathematics OR		
		MAT 120 Elementary Statistics OR BUS	111	
ORI	100	College 101	1	
WEL	120	Oxyful Welding, Cutting and Brazing	<u>3</u>	
			18	

Hrs.

3

3

3

4

4

Hrs.

3

Grade

Grade

NOTES AND INFORMATION

Fall Only Courses:	Spring Only Co	Spring Only Courses:		
HAC 102 HAC 106 HAC 121 HAC 132 HAC 140 HAC 222 HAC 240	HAC 105 HAC 107 HAC 122 HAC 131	HAC 142 HAC 207 HAC 224 HAC 279		

¹ Requires a grade of "C" or higher.

• Heating and Air Conditioning Certificate Program (HAC 0006)

Additional Information: This program prepares students for careers in the heating and air conditioning industry. The curriculum provides theory as well as sufficient laboratory experience to prepare graduates for immediate employment. Students will be trained for competency in installing, operating, troubleshooting, and maintaining all types of environmental control equipment. The graduate will receive an AAS degree.

All students registered for heating and air conditioning classes will be required to furnish a basic tool set. The basic tool set will be necessary by the beginning of the fifth week of the semester. The set includes the following:

FIRST YEAR - SUMMER SEMESTER (OPTIONAL)

Heating II

English Composition I1 OR

Basic Sheet Metal Layout

ENG 113 Professional Technical

Electrical Controls and Circuitry

Refrigeration & Air Conditioning I

Dept.	No.		Hrs.	Grade
INT	101	Internship ²	<u>1-3</u>	
			1_2	

Construction Document Interpretation

Refrigeration and Air Conditioning II

Advanced Sheet Metal Layout

Advanced Heating Systems

Installation of HVAC Systems

Nutdrivers

- Nutdriver ND5 ¼"
- Nutdriver ND7 5/16"
- Manifold Gauge Set

Pliers

- 7" Diagonal Pliers
- 7 ½" Longnose Pliers
- 6" Slip Joint Pliers
- ARC Joint 9-1/2"
 Pliers

Screwdrivers

- Phillips Stubby Screwdriver
- #2 x 4" Phillips
- Screwdriver
 Flat Stubby
- Flat Stubby
 Screwdriver
- 3/16" x 6" Slotted Screwdriver
- 5/16" x 6" Slotted

SECOND YEAR - SPRING SEMESTER

IAI Social & Behavioral Science Elective

SECOND YEAR - FALL SEMESTER

Dept.	No.		Hrs.	Grade	
HAC	142	Commercial Refrigeration	4		
HAC	207	Advanced Controls and Circuitry	3		
HAC	224	Geothermal Systems	3		
HAC	279	ICE Testing	2		
IAI Physical/Life Science OR			3		
IAI Humanities/Fine Arts Elective					
COM	115	Speech OR COM 116	<u>3</u>		
		Interpersonal Communication	18		

² Although this class is recommended, it is not required for graduation from this program and therefore is ineligible for Title IV financial aid funding.

Sockets

- 1/4" Socket Set
- 3/8" Socket Set

Wrenches

- 6" Adjustable Wrench
- 8" Adjustable Wrench
- 10" Adjustable Wrench • 12" Adjustable
- Wrench Hex Wrench Set
- Service Valve Wrench

- **Additional Tools** • Wire Strippers
- AW Sperry SPR Clamp-On Amp Meter
- UEI M110A Multimeter
- Pocket
- Thermometer
- Inspection Mirror
- Sling Psychromater
- · Red and Green Tin Snips
- Tinners Hammer
- Dividers

Note: Costs of supplies vary by supplier. Tools may be purchased at Sears, Snap-On, True Value, etc.

The Heating & Air Condition Program is accredited by the:

Partnership of Air Conditioning, Heating, and Refrigeration Accreditors (PAHRA)

2111 Wilson Blvd., Suite 500 Arlington, VA 22201-3001

Career Opportunities: Technician, installer, maintenance, service manager, self-employment.

John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and timelines of this document.