



**HEATING AND AIR CONDITIONING  
Degree Program**

Career Curriculum HAC0095 Associate in Applied Science Minimum Hrs. 69 Major Code: 1.2 470201C
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**FIRST YEAR – FALL SEMESTER**

Dept. No.		Hrs.	Gr.
HAC 102	Residential Electrical Wiring	4	___
HAC 121	Heating I	4	___
MAT 113	Introduction to Contemporary Mathematics OR MAT 100 Mathematics for Applied Technologies OR MAT 120 Elementary Statistics	3	___
PSY 132	General Psychology	3	___
WEL 150	Oxy-Acetylene Fusion Welding I	1	___
WEL 152	Brazing and Soldering	1	___
		<u>16</u>	

**FIRST YEAR – SPRING SEMESTER**

Dept. No.		Hrs.	Gr.
ENG 101	English Composition I <sup>1</sup> OR ENG 113 Professional Technical Writing <sup>1</sup>	3	___
HAC 105	Basic Sheet Metal Layout	3	___
HAC 107	Electrical Controls and Circuitry	3	___
HAC 122	Heating II	4	___
HAC 131	Refrigeration & Air Conditioning I	4	___
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**FIRST YEAR – SUMMER SEMESTER (OPTIONAL)**

ATI 200	Applied Technologies Internship <sup>2</sup> (Summer only)	1-3	___
		1-3	

Fall Only Courses:

HAC 102  
HAC 106  
HAC 121  
HAC 132  
HAC 140  
HAC 222  
HAC 240

Spring Only Courses:

HAC 105      HAC 142  
HAC 107      HAC 207  
HAC 122      HAC 224  
HAC 131      HAC 279

<sup>1</sup> Requires a grade of "C" or higher.

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

The Heating and Air Conditioning Degree Program (HAC0095) is the parent program to:

- Heating and Air Conditioning Certificate Program (HAC 0006)

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

**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:

**Nutdrivers**

- Nutdriver NDS 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 Screwdriver
- 3/16" x 6" Slotted Screwdriver
- 5/16" x 6" Slotted

**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 Psychrometer
- Red and Green Tin Snips
- Tinnerns 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)**

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

**Effective Date: Fall 2018**

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