



**HEATING AND AIR CONDITIONING
Degree Program**

Career Curriculum
Associate in Applied Science
Minimum Hrs. 70
Major Code: 1.2 470201C

FIRST YEAR – FALL SEMESTER

Dept. No.		Hrs.	Gr.
ELT 102	Industrial Electricity	4	___
HAC 121	Heating I	4	___
MAT 105	Vocational Mathematics	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.
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	___
PSY 110	College Success and Career Planning OR	3	___
	ATI 200 Applied Technologies Internship	<u>17</u>	

FIRST YEAR – SUMMER SEMESTER OPTIONAL

Dept. No.		Hrs.	Gr.
ATI 200	Applied Technologies OR PSY 110 College Success and Career Planning	3	___

¹ Requires a grade of "C" or higher.

**ENG 101 may be required for students who plan to attend a 4-year institution.

*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: Spring, 2006

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:

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| <p>Sockets</p> <ul style="list-style-type: none"> 1/4" Socket Set 3/8" Socket Set <p>Screwdrivers:</p> <ul style="list-style-type: none"> Phillips Stubby Screwdriver #2 x 4" Phillips Screwdriver Flat Stubby Screwdriver 3/16" x 6" Slotted Screwdriver 5/16" x 6" Slotted Screwdriver <p>Nutdrivers</p> <ul style="list-style-type: none"> Nutdriver ND5 1/4" Nutdriver ND7 5/16" <p>Pliers</p> <ul style="list-style-type: none"> 7" Diagonal Pliers 7 1/2" Longnose Pliers 6" Slip Joint Pliers ARC Joint 9-1/2" Pliers | <p>Wrenches</p> <ul style="list-style-type: none"> 6" Adjustable Wrench 8" Adjustable Wrench 10" Adjustable Wrench 12" Adjustable Wrench Hex Wrench Set Service Valve Wrench <p>Additional Tools</p> <ul style="list-style-type: none"> Wire Strippers AW Sperry SPR Clamp-On Amp Meter UEI M110A Multimeter Manifold Gauge Set Pocket Thermometer Inspection Mirror Sling Psychrometer Red and Green Tin Snips Tinners Hammer Dividers |
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Note: Costs of supplies vary by supplier. Tools may be purchased at Sears, Snap-On, True Value, etc.

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