



## TWO YEAR DEGREE

### FIRST YEAR - FALL SEMESTER

COURSE	CREDITS
ELT 102 Basic Electricity and 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
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### FIRST YEAR – SPRING SEMESTER

COURSE	CREDITS
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 ATI 200 Applied Technologies Internship (Summer only)	3
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### SECOND YEAR – FALL SEMESTER

COURSE	CREDITS
ENG 101 English Composition I <sup>1</sup> OR	3
ENG 113 Professional Technical Writing <sup>1</sup>	
HAC 106 Advanced Sheet Metal Layout	2
HAC 132 Refrigeration and Air Conditioning II	4
HAC 222 Advanced Heating Systems	3
HAC 240 Installation of HVAC Systems	3
SPE 115 Speech OR SPE 116 Interpersonal Communication	3
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### SECOND YEAR – SPRING SEMESTER

COURSE	CREDITS
ELT 150 Applied Solid State Electronics	4
ELT 224 Power Distribution and Motors	3
HAC 142 Commercial Refrigeration	4
HAC 207 Advanced Controls and Circuitry	3
HAC 279 ICE Testing	2
PHY 121 Technical Physics - Mechanical OR PHS 106 Energy, Environment and Society	3
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## CERTIFICATE

### FIRST YEAR – FALL SEMESTER

COURSE	CREDITS
ELT 102 Basic Electricity and 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
WEL 150 Oxy-Acetylene Fusion Welding I	1
WEL 152 Brazing and Soldering	1
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### FIRST YEAR – SPRING SEMESTER

COURSE	CREDITS
ELT 224 Power Distribution and Motors	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
	17

### SECOND YEAR – FALL SEMESTER

COURSE	CREDITS
HAC 106 Advanced Sheet Metal Layout	2
HAC 132 Refrigeration & Air Conditioning II	4
HAC 222 Advanced Heating Systems	3
HAC 240 Installation of HVAC Systems	3
PSY 110 College Success and Career Planning OR ATI 200 Applied Technologies Internship	3
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### SUMMER SEMESTER (OPTIONAL)

COURSE	CREDITS
ATI 200 Applied Technologies Internship <sup>1</sup> OR PSY 110 College Success and Career Planning <sup>1</sup>	3



## PAHRA

Program certified through Partnership for Air Conditioning, Heating, and Refrigeration (PAHRA).



## INDUSTRY COMPETENCY EXAMS

We support voluntary technician certification through the American Refrigeration Institute.

An ICE shoulder patch signifies that the wearer has passed industry competency exams.

## 2 + 2 WITH SIUC

The B.S. degree program in industrial technology meets the goals of students interested in careers in the HVACR industry. Major manufacturers and distributors are seeking four-year industrial technology graduates.

## TECHNICAL RESOURCE MANAGEMENT WITH SIUC

The technical resource management (TRM) degree program focuses on managerial and supervisory skills for the technical and service professions. Graduates put these skills to work in their technical field as manufacturer representatives and troubleshooters, supervisors, coordinators, or directors. For specific degree requirements consult the current SIUC Undergraduate Catalog, which can be viewed online along with transferable course equivalencies and other information at <http://www.siu.edu/siuc/>.

## CAREER OPPORTUNITIES

The heating, ventilation, air conditioning, and refrigeration industry (HVACR) is a necessity for personal comfort, health, food preservation, water supply, and work productivity. In fact, many human activities rely on the HVACR industry in one way or another.

The HVACR industry offers variety, job security, respect, upward mobility, and employment opportunities.

The HVACR industry also offers jobs with salaries ranging from \$25,000 to \$100,000 a year, depending on one's ambition.

Some students start their careers with a one-year certificate while others may seek a two-year associate degree or even a four-year bachelor's degree.

Some students begin working for small shops locally as technicians, installers, or maintenance personnel. Others become service managers or choose self-employment. Still others may go on the engineers and work for manufacturers.

Whatever path you choose, turn your dreams into reality in this broad, fast-growing industry.



### JOHN A. LOGAN COLLEGE

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*John A. Logan College does not discriminate on the basis of race, religion, color, national origin, disability, age, gender orientation.*



## HEATING & AIR CONDITIONING



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COLLEGE**

[www.jalc.edu](http://www.jalc.edu)