

Associate in Applied Science (AAS)

Heating, Ventilation and Air Conditioning

Certificate of Achievement (CAC)

Heating, Ventilation and Air Conditioning



JOLIET
JUNIOR COLLEGE
1901

Heating, Ventilation, Air Conditioning, and Refrigeration

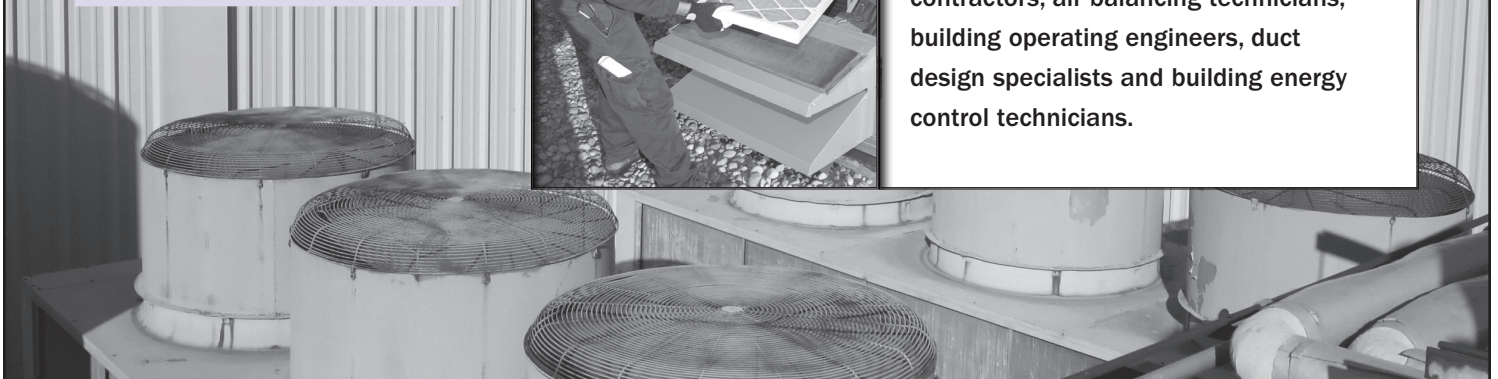
The **JJC Associate in Applied Science degree** prepares the students to meet challenges offered in the HVAC/R Industry. Students will have the opportunity to work with highly trained and experienced professional instructors, specializing in related areas. The program focuses on the commercial aspect of building energy management and operation with an emphasis on hands-on-training using the most up-to-date professional training simulators and technology available.

Opportunities are in great supply for those skilled in the installation and repair of modern refrigeration, air conditioning and heating equipment. Many jobs exist locally as well as in all other sections of the country. Work in this area may be found in new construction, industrial maintenance, or business and commercial areas of the heating and refrigeration industry. Employees who install and repair heating and/or refrigeration equipment must be prepared to solve a variety of problems.



Fast Fact

This area of study can lead to jobs as HVAC service technicians, HVAC contractors, air balancing technicians, building operating engineers, duct design specialists and building energy control technicians.



Joliet Junior College Academic Programs

About JJC

Joliet Junior College, the nation's first public community college, is the college of choice for life-changing learning opportunities. For more than 100 years, JJC has been an institution of affordable, accessible and quality education, enriching lives through high quality programs and services. JJC is a place to grow as a person, to share in a community of learning, and to be inspired by new ideas. With an average class size of 17, JJC students experience a stimulating learning environment where they are taught by the best. JJC has the second most full-time instructors for community colleges in Illinois, and more than 80 percent of professors have a master's degree or higher.

Admissions Office

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Heating, Ventilation, Air Conditioning and Refrigeration

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Heating, Ventilation and Air Conditioning

Associate in Applied Science (AAS)

General Education Requirements

15.0

(For a list of General Education Requirements, please see the JJC Web site)

Major Core Requirements

42.0

AEC 107	Blueprint Reading for Non AEC Majors	2.0
EEAS 101	Basic Wiring and Circuit Design	4.0
HVAC 120	Electrical Controls for HVAC/R	3.0
HVAC 121	Introduction to Air Conditioning Principles	3.0
HVAC 122	Advanced Laboratory Applied to Air Conditioning Systems	3.0
HVAC 124	Introduction to Heating Fundamentals	3.0
HVAC 125	Heat Loss and Heat Gain Calculations	3.0
HVAC 126	Duct Design and Installation Applications	3.0
HVAC 127	Refrigeration Service Principles (Residential & Commercial)	3.0
HVAC 222	Commercial Building Automation Control System Design	3.0
HVAC 223	Commercial Building Pneumatic Control Installation Principles	3.0
HVAC 224	Commercial Building Air Flow Measurement and Balancing Procedures	3.0
HVAC 228	Principles of Heat Pump and Hydronic Boiler Technology	3.0
HVAC 231	Energy Management Principles	3.0

Major Core Electives

7.0

HVAC 229	Service/Installation Work Experience Internship Program	3.0
HVAC 230	Programmable Logic Control (PLC)-Multi-Zone Building Mgmt System Applications	3.0
HVAC 232	Residential Home Wiring (Or Department Elective)	3.0

Total Required Hours

64.0

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General Education Requirements

6.0

(For a list of General Education Requirements, please see the JJC Web site)

Major Core Requirements

30.0

AEC 107	Blueprint Reading for Non-AEC Majors	2.0
EEAS 101	Basic Wiring and Circuit Design	4.0
HVAC 120	Electrical Controls for HVAC/R	3.0
HVAC 121	Introduction to Air Conditioning Principles	3.0
HVAC 122	Advanced Laboratory Application Applied to Air Conditioning Systems	3.0
HVAC 124	Introduction to Heating Fundamentals	3.0
HVAC 125	Heat Loss and Heat Gain Calculations	3.0
HVAC 126	Duct Design and Installation Applications	3.0
HVAC 127	Refrigeration Service Principles (Residential and Commercial)	3.0
HVAC 228	Principles of Heat Pump and Hydronic Boiler Technology	3.0

Total Required Hours

36.0

For the most up-to-date information about the Heating, Ventilation and Air Conditioning program at JJC, visit www.jjc.edu/info/hvac.