



**2022-2023 Completion Guide**  
**Heating, Ventilation and Air Conditioning, A.A.S., TE770**  
**ICCB Approved Total Program Hours: 64**

Date: September 1, 2019

*The following schedule is based on full-time enrollment. Students planning to transfer to a senior institution should check with that institution for specific transfer requirements.*

Program Prerequisites

**T= Traditional    H = Hybrid    W = Web**

**First Semester (Fall or Spring Start)**

Course	Title	Credit Hours	Mode of Delivery	Prerequisites	Terms offered	Notes
HVAC 120	Electrical Controls for HVAC/R	3	T		FL, SP	
HVAC 121	Introduction to Air Conditioning Principles	3	T		FL, SP	
HVAC 124	Introduction to Heating Fundamentals	3	T	HVAC 120, Which may be taken concurrently	FL, SP	
EEAS 101 OR EEAS 111	Basic Wiring and Circuit Design Industrial Controls I	4	T		FL, SP	Recommend EEAS 111
Group I-V General Education Elective		3	T, H, W			Recommend BUS 110
Total Semester Hours		16				

**Second Semester (Spring Starts Jump to Semester 3)**

Course	Title	Credit Hours	Mode of Delivery	Prerequisites	Terms offered	Notes
HVAC 122	Advanced Laboratory Applied to Air Conditioning Systems	3	T	HVAC 121	FL, SP	
HVAC 125	Heat Loss and Heat Gain Calculations	3	T	HVAC 120, 121, and 124	SP	
HVAC 126	Duct Design and Installation Applications	3	T	HVAC 124	SP	
HVAC 127	Refrigeration Service Principles (Residential and Commercial)	3	T	HVAC 121	SP	
Technical Elective		4				Recommend 4 Credit EEAS Course
Total Semester Hours		16				

**Third Semester**

Course	Title	Credit Hours	Mode of Delivery	Prerequisites	Terms offered	Notes
HVAC 224	Commercial Building Air Flow Measurement and Balancing Procedure	3	T	HVAC 122	FL	
HVAC 228	Principles of Heat Pump and Hydronic Boiler Technology	3	T	HVAC 124	FL	
HVAC 231	Energy Management Principles	3	T	HVAC 224 or Consent of Program Advisor	FL	Contact J Aguilar to Register
Technical Elective		3			FL	Recommend IMT 122 (Fall Only)
TMAT 107 OR PHYS 103	Technical Mathematics I OR	3 OR 4		"C" in MATH 090 OR Placement into ENG 101	FL, SP	Higher Level Math or Physics Accepted

	Technical Physics (PHYS Recommended)					
Group II Social and Behavioral Science		3			FL, SP	Recommend ECON 103
	Total Semester Hours	18-19				

Fourth Semester						
Course	Title	Credit Hours	Mode of Delivery	Prerequisites	Terms offered	Notes
HVAC 222	Commercial Building Automation Control System Design	3	T	HVAC 122	SP, SM	
HVAC 223	Commercial Building Pneumatic Control Installation Principles	3	T	HVAC 222	SP	Contact J Aguilar to Register
English 101 OR English 130	Rhetoric OR Technical Writing and Communication	3	T, H, W	Placement into ENG 101 OR Placement into ENG 101	FL, SP, SM	
AEC 107 OR AEC 106 OR CADD 101	Blueprint Reading for Non-AEC Majors OR Blueprint Reading for Construction and Architecture OR 2D Computer Animated Design and Drafting I	2 3 3	T	N/A N/A MATH 095	FL, SP	
Group I-V General Education Elective		3			FL, SP, SM	
	Total Semester Hours	14-15				

### Graduation Requirements

To be awarded an Associate degree at Joliet Junior College, each student must meet the following requirements:

1. Satisfy all admission requirements.
2. Complete the courses required to earn the chosen degree. If the student is a transfer student with coursework taken elsewhere, he/she must complete a minimum of 60 credit hours of which the last 15 credit hours applicable to the degree are earned at Joliet Junior College. If the student has not taken the last 15 hours at JJC, then a total of 30 credit hours applicable to the degree must be earned at Joliet Junior college. Proficiency test, CLEP and Advanced Placement do not meet this requirement.
3. Earn a cumulative grade point average of at least 2.0.
4. Discharge all financial obligations to the college; have no restrictions.
5. File an application for graduation (An application should be filed at the time of registration for student's anticipated last semester).
6. Have on file in the Graduation office by the graduation filing date all transcripts from other colleges/universities that are to be evaluated for credit, to be applied toward a degree. A delay in the process may result in a later graduation date.

For more information:	<b>Department Chairperson</b>	<b>Program Coordinator</b>	<b>Program Advisor</b>
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