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| JJC Logo Primary_black.jpg | **2019-2020 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**

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| **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 |  |  |  |  |

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| **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 |  |  |  |  |

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| **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  Technical Physics (PHYS Recommended) | 3  OR  4 |  | “C” in MATH 090  OR  Placement into ENG 101 | FL, SP | Higher Level Math or Physics Accepted |
| Group II Social and Behavioral Science |  | 3 |  |  | FL, SP | Recommend ECON 103 |
|  | Total Semester Hours | 18-19 |  |  |  |  |

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| **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  Blueprint Reading for Construction and Architecture  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.

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| For more information: | **Department Chairperson** | **Program Coordinator** | **Program Advisor** |
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