HVACR Technology (HVAR) - 64 Credits

Associate in Applied Science (AAS)  
College of Engineering Technology

ADMISSION REQUIREMENTS
New Students
- High school GPA of 2.7
- Minimum ACT score of 18 or SAT 16 or 950
- ACT math subscore of 19 or SAT 16 Math 500

Transfer Students
- College GPA of 2.0
- MATH 116 placement
- ENGL 150 placement

UNIVERSITY GENERAL EDUCATION REQUIREMENTS
Courses in this section are required to satisfy the university general education requirements for an AAS degree.

Prefix ### Course Title (Prerequisites shown in parenthesis) Crs

**TIER 1: FOUNDATION COMPETENCIES**

**COMMUNICATION COMPETENCY** – 6 Written Communication Credits Required (or their equivalent)
- ENGL 150 English 1 3
- ENGL 250 English 2 (ENGL 150 C-) 3

**QUANTITATIVE LITERACY COMPETENCY** – 3 Credits Required
- MATH 116 Intermediate Algebra and Numerical Trig. (ACT 19 or MATH 110) 3

**TIER 2: DISTRIBUTION COMPETENCIES**

**NATURAL SCIENCES COMPETENCY** – 1 course w/lab Required
- lab 3-4

**CULTURE COMPETENCY** – 1 course with a minimum of 3 Credits Required

**SELF AND SOCIETY COMPETENCY** – 1 course with a minimum of 3 Credits Required

**ADDITIONAL GENERAL EDUCATION REQUIREMENTS**
The courses below are additional general education courses to meet the requirements for this specific program.
- COMM 121 Fundamentals of Public Speaking 3

Freshman Seminar Requirement, FSUS 100, is satisfied by:

Prefix ### Course Title (Prerequisites shown in parenthesis) Crs

**MAJOR REQUIREMENTS** – 43 Credits Required (these courses ARE used to calculate the major 2.00 GPA requirement)
- HVAC 101 Intro to Refrigeration and A/C Systems (co-req MATH 116) 4
- HVAC 102 Advanced Refrigeration and A/C (C- or better in HVAC 101, HVAC 111, and MATH 116) 4
- HVAC 111 Electricity-Blueprints-Fabrication (co-req MATH 116) 4
- HVAC 117 Advanced Electricity-Circuits (C- or better in HVAC 111 and Math 116) 4
- HVAC 127 Advanced HVACR Controls (C- or better in HVAC 117) 3
- HVAC 132 Fund of Heating and Mechanical Systems (C- in HVAC 111) 5
- HVAC 207 Commercial Refrigeration Systems (C- or better in HVAC 102 and HVAC 117) 5
- HVAC 208 Air Conditioning Applications (C- or better in HVAC 102 and HVAC 117) 5
- HVAC 235 Advanced Heating-Mech Systems (C- in HVAC 117 and HVAC 132) 5
- HVAC 245 HVAC Unitary System Design (C- or better in HVAC 101 and HVAC 132) 4

Must have a C- or higher in the following HVAC 1st year classes: HVAC 101, 102, 111, 117, and 132 to meet 2nd year prerequisites.

**ADDITIONAL GRADUATION REQUIREMENTS**
Students must
- maintain a 2.00 cumulative FSU GPA
- have 15 credits of Ferris classes (FSU Residency requirement)
- have a minimum 60 total credits to earn an associate degree
- maintain a 2.00 GPA in the major
- earn a C- or better in all HVAC coursework
DEGREE OUTCOMES

1. Demonstrate installation techniques for residential/light commercial HVAC systems
2. Service residential/light commercial HVAC equipment
3. Service commercial refrigeration equipment
4. Systematically troubleshoot and repair commercial refrigeration equipment
5. Systematically troubleshoot and repair residential/light commercial HVAC equipment
6. Design residential/light commercial HVAC systems
7. Demonstrate ability to install, troubleshoot and repair HVACR controls

Semester-by-Semester layout of classes

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<th>Summer Semester</th>
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<tr>
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