

SCHOOL OF ENGINEERING & CONSTRUCTION TECHNOLOGIES

AIR CONDITIONING & REFRIGERATION TECHNOLOGY

ASSOCIATE IN APPLIED SCIENCE (85 CREDIT HOURS)

Reap the career rewards of job security and variety and make great money with an AAS in Air Conditioning & Refrigeration Technology from OSUIT. For the next ten years, the construction industry nationwide needs at least 35,000 new HVAC technicians each year to meet its needs, resulting in high demand for program graduates.

The national average yearly salary is \$45,110 (\$21.69 per hour), and some technicians make \$75,000 or more per year. Recent graduates averaged about \$46,000 per year during their first year in the field (2018 graduate data). Employers in this industry also provide insurance, retirement benefits, transportation, and many even offer pay bonuses.

With an Air Conditioning Refrigeration & Technology degree, graduates may work for a small company with one or two technicians or a Fortune 500 firm. This career option provides the graduate with the flexibility to do a wide range of jobs, from working on ice-making machines down the street to setting a large piece of equipment on top of a high-rise building with a helicopter.

An Air Conditioning Refrigeration & Technology degree will prepare you to work in many specialty areas, including more than 25 different positions. These specialties include Residential Heating and Air Conditioning Service, Commercial Heating and Air Conditioning Service, Industrial Process Refrigeration, Commercial/Supermarket Refrigeration, Restaurant Equipment Service, Manufacturer Testing/Lab Testing, Air Testing and Balancing, Building Automation/Controls, and System Commissioning.

OSUIT has produced quality HVAC technicians for more than 70 years. Remarkably, the program has placed 90% of graduates for the last 25 years. One hundred percent of the program's recent graduates who wanted a job were employed, and many of them had multiple job offers. OSUIT's four classrooms, eight working labs, and broad curriculum set it apart from other programs in many ways.

Sample topics from the program curriculum include Residential and Commercial Air Conditioning, Unitary Refrigeration (the training facilities include 20 ice machines), Systems Controls (teaching DOC and Energy Management Systems), and Commercial Refrigeration and related equipment

The program includes classroom work and ample hands-on lab work. The program curriculum includes two half-semester company-sponsored internships, where students can often make \$14.00 or more per hour. While these internships may help you pay for your education, other financial help is available.

This program of study requires special program fees beyond OSUIT's current tuition and mandatory fees.

Enrollment in internships requires department approval and a minimum overall (retention/graduation) 2.0 GPA.

For more detailed information regarding OSUIT's Air Conditioning & Refrigeration Technology program – including the required tool list – please contact a program advisor at 918-293-5150 or visit osuit.edu/acr.

PROGRAM REQUIREMENTS: 66 CREDIT HOURS

AIR CONDITIONING & REFRIGERATION TECHNOLOGY (63 CREDIT HOURS)

- ACR 1111 EPA Certification Information
- ACR 1121 Introduction to Air Conditioning & Refrigeration Technology
- ACR 1126 ACR System Applications
- ACR 1203 Electrical Controls
- ACR 1206 Electrical Control Applications ^[C]
- ACR 1336 Residential Air Conditioning & Heating Systems ^[P]
- ACR 1343 Electronic Control Applications ^[P]
- ACR 1344 Unitary Refrigeration ^[P]
- ACR 2406 Commercial Refrigeration Applications ^[P]
- ACR 2443 Systems Controls ^[P]
- ACR 2513 Air Systems Design
- ACR 2603 Commercial Air Conditioning ^[P]
- ACR 2623 Mechanical Codes ^[P]
- ACR 2653 Air Conditioning & Refrigeration Technology Capstone ^{[C],[P]}
- ACR 2806 ACR Internship I ^[P] and
- ACR 2906 ACR Internship II ^[P]
or
- ACR 2912 ACR Internship ^[P] (12 credit hours)

APPROVED TECHNICAL ELECTIVE (3 CREDIT HOURS)

- CNS 1213 Construction Safety OSHA 30 Hour or
- GTCT 1183 Welding

GENERAL EDUCATION REQUIREMENTS: 18 CREDIT HOURS

AMERICAN HISTORY & GOVERNMENT (6 CREDIT HOURS)

- HIST 1483 US History to 1865 or
- HIST 1493 US History since 1865
- POLS 1113 US Government

COMMUNICATIONS (6 CREDIT HOURS)

Select from courses listed below or others as approved by program advisor.

- ENGL 1113 Freshman Composition I or
- ENGL 1033 Technical Writing I
- SPCH 1113 Introduction to Speech Communications or
- SPCH 2313 Small Group Communications

COMPUTER LITERACY (3 CREDIT HOURS)

- CS 1013 Computer Literacy & Applications

APPROVED GENERAL EDUCATION ELECTIVE (3 CREDIT HOURS)

Consult with program advisor for an approved list of electives.

INTERDEPARTMENTAL REQUIREMENTS: 1 CREDIT HOUR

ORIENTATION (1 CREDIT HOUR)

- ORIE 1011 College Strategies