

# Air Conditioning & Refrigeration

- Certificate of Proficiency
- Technical Certificate
- A.A.S.

Courses include but are not limited to:

- Refrigeration Systems and Components
- Schematics
- Introduction to Air Conditioning and Refrigeration
- Piping and Load Calculations
- Commercial Refrigeration
- Heating Technology
- Computer Aided Drafting
- Fundamentals of Electricity
- Introduction to Digital Systems
- Motors and System Controls
- Programmable Logic Controls

## Description

The Air Conditioning and Refrigeration program includes courses in electricity, motors, domestic refrigeration, heating, and air conditioning. Students learn to install, service, and repair air conditioning and heating units in homes, schools, and commercial and industrial businesses.

Heating, air conditioning and refrigeration systems consist of many mechanical, electrical, and electronic components including motors, compressors, pumps, fans, ducts, pipes, thermostats, and switches. Technicians must be able to maintain, diagnose, and correct problems throughout the entire system. They follow blueprints, design specifications, and manufacturer's instructions to install motors, compressors, condensing units, evaporators, piping, and other components.

Knowledge of electronics is helpful, as well as having a mechanical aptitude. Students need a solid math background – program requires Applied Technical Math.

## After UACCM

Graduates are employed as:

- Residential repair technicians
- Refrigeration and maintenance technicians in manufacturing or industrial plants and hospitals
- Commercial refrigeration technicians

## Arkansas - Local Area Wages:

Entry-level Annual Wage: . . . . \$25,950  
Median Annual Wage: . . . . . \$33,220  
This income could be considerably higher, up to \$60,000 - \$70,000 per year, after some experience in commercial refrigeration.

## Examples of potential employers:

Residential and commercial air conditioning companies, Baptist Medical Center, Tyson Foods, ConAgra, Carrier Air Conditioning, Henry Management, Inc.