



## **APPLIED TECHNOLOGY DEGREE** **Air Conditioning and Refrigeration**

### **About the Program and Career Opportunities**

The purpose of this program of study is to train the student to become an air conditioning and refrigeration technician. Concentrations for students to choose from are Advanced ACR, Indoor Air Quality, System Design, ACR Commercial, ACR Business or ACR Controls. The student in the program learns to install and repair air conditioning and refrigeration equipment in office buildings, factories, homes, food stores, restaurants, theaters, and other establishments. The practical experiences provide proficiency in cutting pipe and repair and maintenance of refrigeration and air conditioning equipment along with load and duct design.

Technical jobs are the fastest growing segment of the economy. The demand for qualified people to monitor, service, repair, design and install HVACR equipment is projected to increase faster than average for all occupations over the next ten years. The typical base salary range for a HVACR technician is \$27,040 - \$31,200. Base salary does not include overtime or benefits.

### **How Do I Apply?**

Everyone must submit an application for admission to the Admissions Office on the Decatur or Huntsville campus. At that time, you'll receive further information on admissions requirements.

### **How Much Will it Cost?**

Tuition at Calhoun — the fees paid to take classes— is among the lowest in the area. A full-time student will pay between \$1140-\$1520 per 15-week semester. A single class will cost only \$285. Since the college does not have dormitories, the only other costs will be for transportation to and from class and books and supplies. And, if you need help with college costs, the Office of Student Financial Services has information on grants, work study, scholarships, and loans.

# AIR CONDITIONING & REFRIGERATION MAJOR

**With concentrations in Advanced ACR, or, Indoor Air Quality, or System Design, or ACR Commercial, or ACR Business, or ACR Controls**

COURSES	Credit Hours	Advanced ACR	Indoor Air Quality	System Design	ACR Commercial	ACR Business	ACR Controls
ENG 101 English Composition	3	•	•	•	•	•	•
MTH 103 Intro to Technical Mathematics	3	•	•	•	•	•	•
WKO 107 Work Skills Preparation	1	•	•	•	•	•	•
SPH 107 Fundamentals of Public Speaking	3	•	•	•	•	•	•
Humanities Elective	3	•	•	•	•	•	•
Social Science Elective	3	•	•	•	•	•	•
Natural Science Elective	3	•	•	•	•	•	•
PHS 102 Environmental Science	4		•				
CIS 146 Microcomputer Applications	3	•	•	•	•	•	•
ADM 100 Industrial Safety	3	•	•	•	•	•	•
ADM 101 Precision Measurement	3	•	•	•	•	•	•
ADM 102 Computer Aided Design	3	•	•	•	•	•	•
ADM 103 Intro to Computer Integrated Mfg./ Materials & Processes	3	•	•	•	•	•	•
ADM 104 Intro to Thermal/Electrical Principles	3	•	•	•	•	•	•
ADM 105 Fluid Systems	3	•	•	•	•	•	•
ADM 106 Quality Control Concepts	3	•	•	•	•	•	•
ACR 112 HVAC Service Procedures	3					•	
ACR 113 Refrigeration Piping	3	•	•	•	•	•	•
ACR 119 Fund. Gas Heating Sys.	3	•	•	•	•	•	•
ACR 120 Fund. Electric Heating	3	•	•	•	•	•	•
ACR 121 Principles of Electricity for HVAC	3	•	•	•	•	•	•
ACR 122 HVACR Electrical Circuits	3	•	•	•	•	•	•
ACR 123 HVACR Electrical Components	3	•				•	•
ACR 126 Commercial Heating Systems	3				•		
ACR 128 Heat Load Calculations	3			•			
ACR 130 Computer Aided HVAC Troubleshooting	1		•				•
ACR 132 Residential AC	3	•					
ACR 135 Mechanical/Gas Safety Codes	3		•	•			
ACR 138 Customer Relations in HVAC	3		•			•	
ACR 141 Environmental Systems	4				•		
ACR 144 Basic Drawing & Blueprint Reading HVAC	3			•			
ACR 147 Refrigeration Transition & Recovery	3	•					•
ACR 148 Heat Pump Systems I	3	•					
ACR 149 Heat Pump Systems II	3	•					
ACR 151 Duct Design & Fabrication	6			•			
ACR 181 Special Topics in ACR	3		•				
ACR 200 Review for Contractors	3					•	
ACR 203 Commercial Ref.	3				•		
ACR 205 System Sizing	3	•		•			
ACR 209 Commercial AC Sys.	3				•		
ACR 210 Troubleshooting HVACR Systems	3						•
ELT 118 Commercial/Industrial Wiring	3				•		
ELT 209 Motor Controls I	3						•
ELT 231 PLC I	3						•
BIO 103 Prin. of Biology	3		•				
BUS 100 Intro. To Business	3					•	
BUS 279 Small Business Mgt.	3					•	
<b>TOTAL CREDITS</b>		76	72	76	74	76	74

• Courses required for each concentration

**For program information, call John Holley at 256-306-2865**

TUITION AND FEES ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

## Calhoun Community College

**P.O. Box 2216 • Decatur, AL 35609-2216 • 256-306-2500**  
[www.calhoun.edu](http://www.calhoun.edu)

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