



CALHOUN  
COMMUNITY  
COLLEGE

## APPLIED TECHNOLOGY DEGREE Industrial Maintenance

### About the Program and Career Opportunities

#### **Industrial Maintenance/Mechanical Major:**

The Associate of Applied Science degree in Applied Technology with a major in Industrial Maintenance/Mechanical will prepare graduates for employment as entry level industrial mechanics and millwrights. Concepts covered in this program include pumps, motors, motor controls, mechanical drives, preventive/predictive maintenance concepts, hydraulics, pneumatics, prints and mechanical drawings, and related safety.

#### **Industrial Maintenance/Electrical Major:**

The Associate of Applied Science degree in Applied Technology with a major in Industrial Maintenance/Electrical will prepare graduates for employment as entry level industrial electrician. Concepts covered in the major include basic electrical concepts, motor controls, programmable logic controllers, and basic instrumentation principles.

#### **Industrial Maintenance/Air Conditioning & Refrigeration:**

The Associate of Applied Science degree in Applied Technology with a major in Industrial Maintenance/Air Conditioning & Refrigeration will prepare graduates for employment as entry level HVAC technicians. Concepts covered in the major include fundamentals of electric and gas heating systems, refrigerant transition and recovery, commercial/industrial wiring, and NEC codes.

#### **Industrial Maintenance/Instrumentation:**

The Associate of Applied Science degree in Applied Technology with a major in Industrial Maintenance/Instrumentation will prepare graduates for employment as entry level instrumentation technicians. Concepts covered in the major include electronics for electricians; instrumentation circuits and systems; transducers; detectors; actuators; control devices; and fundamentals of pressure, force, weight, motion, liquid level, and fluid flow.

The typical base salary range for an Industrial Maintenance Technician is \$31,200 - \$54,000. 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. Refer to Calhoun's website at [www.calhoun.edu](http://www.calhoun.edu) for current tuition and fees schedule. 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.

**For program information, call Collis Sims at  
256/306-2588 or Mark Rose at 256/306-2814**

TUITION AND FEES ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

# INDUSTRIAL MAINTENANCE MAJOR

COURSES	Credit Hours	Mechanical	Electrical	Air Conditioning & Refrigeration	Instrumentation
ENG 101 English Composition	3	•	•	•	•
MTH 103 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	•	•	•	•
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 Manufacturing/Materials & Processes	3	•	•	•	•
ADM 104 Intro. To Thermal/Electrical Principals	3	•	•	•	•
ADM 105 Fluid Systems	3	•	•	•	•
ADM 106 Quality Control Concepts	3	•	•	•	•
ELT 108 DC Electricity	3	•	•	•	•
ELT 109 AC Electricity	3	•	•	•	•
ELT 117 AC/DC Motors	3	•	•	•	•
ELT 118 Commercial/Industrial Wiring	3	•	•	•	•
ELT 209 Motor Controls I	3	•	•	•	•
ELT 212 Motor Controls II	3	•	•	•	•
ELT 221 Electronics for Electricians	3	•	•	•	•
ELT 231 Programmable Controls I	3	•	•	•	•
ELT 232 Programmable Controls II	3	•	•	•	•
ELT 241 National Electric Code	3	•	•	•	•
ILT 103 Intro to Instrumentation Technology	3	•	•	•	•
ILT 104 Industrial Instrumentation	3	•	•	•	•
ILT 105 Industrial Instrumentation Lab	2	•	•	•	•
ILT 108 Intro to Instrumentation & Process	3	•	•	•	•
ILT 163 Digital Fundamentals	3	•	•	•	•
ILT 214 Introduction to Instrumentation	3	•	•	•	•
ILT 216 Industrial Robotics	3	•	•	•	•
ILT 217 Industrial Robotics Lab	2	•	•	•	•
INT 117 Principles of Industrial Mechanics	3	•	•	•	•
INT 126 Preventive Maintenance	3	•	•	•	•
INT 127 Principles of Pumps & Piping	3	•	•	•	•
ARS 151 Welding Principles/Theory/Symbols	3	•	•	•	•
MTT 147 Introduction to Machine Shop I	3	•	•	•	•
MTT 148 Introduction to Machine Shop I Lab	3	•	•	•	•
ACR 113 Refrigeration Piping Practices	3	•	•	•	•
ACR 119 Fund of Gas Heating Systems	3	•	•	•	•
ACR 120 Fund of Electric Heating Systems	3	•	•	•	•
ACR 147 Refrigerant Transition & Recovery	3	•	•	•	•
ACR 205 System Sizing & Air Distribution	3	•	•	•	•
Total Credits		76	76	76	74

• Courses required for each concentration

Rev. 2/1-

## Calhoun Community College

P.O. Box 2216 • Decatur, AL 35609-2216 • 256-306-2500  
www.calhoun.edu

*Your Community. Your College. Your Future.*

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