



CALHOUN
COMMUNITY
COLLEGE

APPLIED TECHNOLOGY DEGREE

Automation

About the Program and Career Opportunities

The Associate of Applied Science degree in Applied Technology with a Major in Automation will prepare graduates for entry-level employment in industrial automation. Concepts covered in the major include electronics for electricians, programmable logic controllers, digital fundamentals, interfacing microcomputers to electro-mechanical devices, and flexible manufacturing cells.

Automation/robotics technicians build, install, and maintain automated machinery and equipment. Automated equipment is “smart” and handles tasks, such as shutting off lights or triggering an alarm, through computerized systems. It is designed to reduce energy costs for business and industry and to improve quality of life for individuals. Between 2002 and 2012, employment of robotics technicians is expected to increase at an average pace. The electronics industry offers the most promise for new growth. As the technology continues to advance, new markets will open up and create new opportunities for automation/robotics technicians. Opportunities will be best for those who can troubleshoot, maintain, and repair the highest-quality equipment, as well as those who have the best electronic and computer skills. The typical base salary range for an Automation Technician is \$31,200 - \$52,000. 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. 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.

AUTOMATION MAJOR

COURSES	Cr. Hr.
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
ADM 250 Introduction to Flexible Manufacturing Cells	4
ELT 108 DC Electricity	3
ELT 109 AC Electricity	3
ELT 117 AC/DC Machines	3
ELT 209 Motor Controls I	3
ELT 221 Electronics for Electricians	3
ELT 231 Programmable Controls I	3
ELT 232 Programmable Controls II	3
ILT 163 Digital Fundamentals	3
ILT 216 Industrial Robotics	3
ILT 217 Industrial Robotics Lab	2
 Total Credits	 76

**For program information, call
Richard Ferrara at 256-306-2588 or
Mark Rose at 256-306-2814**

TUITION AND FEES ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

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Calhoun Community College

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www.calhoun.edu**

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