



## **APPLIED TECHNOLOGY DEGREE**

### **Machine Tool Technology**

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

The Machine Tool Technology program is a study of the process of using machine tools to manufacture useful products and parts. Concentrations from which students may choose are Manual Machining, Precision Inspection, CNC Turning, CNC Milling, CNC CAM and CNC EDM. Students will acquire specialized knowledge and skills in many areas including mathematics, print reading, physics, measuring instruments, cutting tools, and machine tools. Graduates will have the ability to turn rough material into precision finished products and parts.

The demand for machine tool technicians and operators historically has been great. There are over 200 machine shops in north Alabama alone, and the need for entry level technicians and operators in the service area is greater than the current supply of qualified individuals. The U.S. Bureau of Labor Statistics ranks Machine Tool Technology seventh in the top 10 occupational areas on the basis of net life earnings. The typical base salary for a Machine Tool Technician is \$23,000 - \$41,600. 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.

TUITION AND FEES ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

**For program information, call Mike Blizzard at 256-306-2668  
or Tad Montgomery at 256-306-2669**

# MACHINE TOOL TECHNOLOGY MAJOR

*With Concentrations in Manual Machining, or  
Precision Inspection, or CNC Turning, or CNC Milling,  
or CNC CAM, or CNC EDM*

COURSES	Credit Hours	Manual Machining	Precision Inspection	CNC Turning	CNC Milling	CNC CMA	CNC EDM
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	•	•	•	•	•	•
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	•	•	•	•	•	•
MTT 107 Machining Calculations	3		•				
MTT 108 Machinist Handbook Functions I	3		•				
MTT 109 Orientation to CAM	3					•	
MTT 121 Blueprint Reading	3	•	•	•	•	•	•
MTT 128 Geometric Dimensioning	3		•				
MTT 130 Machining Calculations II	3		•				
MTT 147 Intro to Machine Shop I	3	•	•	•	•	•	•
MTT 148 Intro to Machine Shop I Lab	3	•	•	•	•	•	•
MTT 149 Intro to Machine Shop II	3	•	•	•	•	•	•
MTT 150 Intro to Machine Shop II Lab	3	•	•	•	•	•	•
MTT 137 Milling I	3	•			•		
MTT 138 Milling I Lab	3	•			•		
MTT 134 Engine Lathe I	3	•		•		•	•
MTT 135 Engine Lathe I Lab	3	•		•		•	•
MTT 139 Introduction to CNC	3						•
MTT 140 Basic CNC Turning/Prog. I	3			•			•
MTT 141 Basic CNC Milling Prog. I	3				•		•
MTT 144 Electrical Discharge Machining	3						•
MTT 162 Precision Grinding	3	•					
MTT 163 Precision Grinding Lab	3	•					
MTT 212 Advanced CNC Turning	3			•			
MTT 213 Advanced CNC Milling	3				•		
MTT 218 Computer Integrated Machining	3					•	
MTT 219 CNC Graphics: Turning	3					•	
MTT 220 CNC Graphics: Milling	3					•	
MTT 241 CNC Milling Lab I	3				•		
MTT 242 CNC Milling Lab II	3				•		
MTT 243 CNC Turning Lab I	3			•			
MTT 244 CNC Turning Lab II	3			•			
MTT 281 Special Topics in MTT	3		•				
Total Credits		76	73	76	76	76	76

• Courses required for each concentration

## Calhoun Community College

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

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