

# MACHINE TOOL TECHNOLOGY

## Associate of Applied Science Degree

### Advanced Manufacturing

#### SEMESTER 1:

ADM 101	Precision Measurement
MTT 147	Introduction to Machine Shop I
MTT 148	Introduction to Machine Shop I Lab
MTT 138	Milling I Lab
MTT 121	Basic Blueprint Reading for Machinists

#### SEMESTER 2:

ENG 101	English Composition
*MTH 100	Intermediate College Algebra
ADM 111	Manufacturing Safety Practices
MTT 149	Introduction to Machine Shop II
MTT 150	Introduction to Machine Shop II Lab

#### SEMESTER 3:

*MTH 103	Introduction to Technical Mathematics
MTT 141	Basic CNC Milling
MTT 241	CNC Milling Lab I
ADM 106	Quality Control Concepts

#### SEMESTER 4:

MTT 140	Basic CNC Turning
MTT 243	CNC Turning Lab I
ADM 105	Fluid Systems
ADM 108	Intro to 3D Modeling
Social Science Elective	

#### SEMESTER 5:

MTT 213	Advanced CNC Milling
MTT 242	CNC Milling Lab II
MTT 212	Adv. CNC Turning
ADM 104	Intro. To Thermal/Electrical Principals
Humanities Elective	

#### TOTAL: 72 CREDIT HOURS

*\*If student plans to pursue a bachelor's degree or further education MTT 112 Precalculus Algebra and MTT 113 Precalculus Trigonometry can be substituted.*

#### ADVANCED CNC CERTIFICATE - SEMESTER 6:

MTT 219	CNC Graphics: Milling (Advanced Cad Cam)
MTT 220	CNC Graphics Turning (Advanced Cad Cam)
MTT 281	Special Topics (Intermediate 3D Modeling)
MTT 282	Special Topics (Multi-Axis machining)

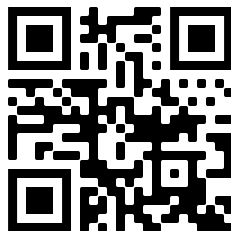
#### TOTAL: 12 CREDIT HOURS

## HOW TO APPLY

- Complete an application to Calhoun Community College ([calhoun.edu/apply](http://calhoun.edu/apply)) and receive your Calhoun student ID number
- Complete the AMP program application ([calhoun.edu/AMP](http://calhoun.edu/AMP))
- You will need to have a chronological resume to attach to the AMP application
- Don't forget to complete your FAFSA (Free Application for Federal Student Aid) ([fafsa.ed.gov](http://fafsa.ed.gov)) and apply for scholarships.

## APPLY TODAY!

*Use the camera on your smartphone to scan this QR code, which will take you to our program page:*



Contact Nathan Steele (256) 260-4326, [nathan.steele@calhoun.edu](mailto:nathan.steele@calhoun.edu) or Tad Montgomery (256) 306-2539, [tad.montgomery@calhoun.edu](mailto:tad.montgomery@calhoun.edu) to learn more.

[calhoun.edu/amp](http://calhoun.edu/amp)



**ADVANCED MACHINE  
TOOL CURRICULUM.**

**PAID WORK EXPERIENCE.**

**AMP**  
ALLIANCE for  
MACHINING PROFESSIONALS

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## WHAT IS MACHINE TOOL TECHNOLOGY?

The Machine Tool Technology program is a study of the process of using machine tools to manufacture useful products and parts. Students will acquire specialized knowledge and skills in many areas including mathematics, print reading, physics, precision measuring instruments, cutting tools, design, prototype, and machine tools.



## FREQUENTLY ASKED QUESTIONS



### *Do I get to choose my sponsor company?*

*Companies select students on a draft system. You have the right to refuse an offer, but there is no guarantee another company will select you.*

### *Will I be hired at my sponsor company?*

*Maybe. There is no obligation for the sponsor company to hire you, nor are you obligated to stay after graduation. Several factors are considered in this situation*

### *How many students are accepted into the program each year?*

*Students are accepted based on the number of company sponsorships available.*

## WHAT MAKES AMP DIFFERENT?

- Advanced CNC Machine Tool Curriculum (5 Semesters for AAS degree plus 1 semester for Advanced CNC Certificate).
- There is a well-defined criteria for acceptance into the AMP Program.
- Students attend class two days a week for an average of 8 hours per day, and get paid to work for one of our industry partners three days per week.
- Prior to selection into the program, students sign a commitment towards consistent attendance, proper attire, and professional behavior.
- Soft skills, such as Lean manufacturing processes, and problem solving are integrated into the AMP Program.

## APPLICATION REQUIREMENTS

- *Applicant must be eligible to take MTH 100 & ENG 101 at Calhoun Community College.*
- *Must have a desire to be a professional machine tool technician, and be at least 18 years of age by June 1 of the application year.*
- *Participation in STEM (Science, Technology, Engineering, & Math) such as BEST Center, Robotics Career Technical Coursework, or Project Lead the Way is preferred.*