

# Machine Tool Technology

## Degree Program

### MT13

[Click here to jump to Program Description, Admissions Requirements, and Financial Aid.](#)

## Curriculum

### General Education Core – Total of 15 Hours

#### Area I – Language Arts/Communications – Choose 3 Hours

ENGL 1101 *Composition & Rhetoric* (3)

#### Area II – Social/Behavioral Sciences – Choose 3 Hours

ECON 1101 *Principles of Economics* (3)  
ECON 2105 *Macroeconomics* (3)  
ECON 2106 *Microeconomics* (3)  
HIST 1111 *World History I* (3)  
HIST 1112 *World History II* (3)  
HIST 2111 *U.S. History I* (3)  
HIST 2112 *U.S. History II* (3)  
POLS 1101 *American Government* (3)  
POLS 2401 *Global Issues* (3)  
PSYC 1101 *Introductory Psychology* (3)  
SOC 1101 *Introduction to Sociology* (3)

#### Area III – Natural Sciences/Mathematics – Choose 3 Hours

MATH 1101 *Mathematical Modeling* (3)  
MATH 1103 *Quantitative Skills/Reasoning* (3)  
MATH 1111 *College Algebra* (3)

#### Area IV – Humanities/Fine Arts – Choose 3 Hours

ARTS 1101 *Art Appreciation* (3)      HUMN 1101 *Intr. to Humanities* (3)  
ENGL 2110 *World Literature* (3)      MUSC 1101 *Music Appreciation* (3)  
ENGL 2130 *American Literature* (3)

#### General Education Core Elective – Choose 3 Hours

#### Program-Specific Core – Total of 42 Hours

MCHT 1011 *Intro to Machine Tool* (4)  
MCHT 1012 *Blueprint for Machine Tool* (3)  
MCHT 1020 *Heat Treatment/Surface Grind* (3)  
  
MCHT 1013 *Machine Tool Math* (3) - OR -  
{ MATH 1013 *Algebraic Concepts* (3)  
MATH 1015 *Geometry & Trigonometry* (3) } BOTH  
  
MCHT 1119 *Lathe Operations I* (3)  
MCHT 1120 *Mill Operations I* (3)  
MCHT 1219 *Lathe Operations II* (3)  
MCHT 1220 *Mill Operations II* (3)  
AMCA 2110 *CNC Fundamentals* (3)  
AMCA 2130 *CNC Mill Manual Programming* (5)  
AMCA 2150 *CNC Lathe Manual Programming* (5)  
AMCA 2190 *CAD/CAM Programming* (4)

#### Occupational-Related Elective – Choose 3 Hours

**Total: 60 Hours**

#### General Education Core Electives

ARTS 1101 <i>Art Appreciation</i> (3)	MATH 1103 <i>Quant. Skills/Reason</i> (3)
BIOL 1111(L) <i>Biology I + Lab</i> (4)	MATH 1111 <i>College Algebra</i> (3)
BIOL 2113(L) <i>Human A&amp;P I + Lab</i> (4)	MATH 1112 <i>College Trig</i> (3)
BIOL 2114(L) <i>Human A&amp;P II + Lab</i> (4)	MATH 1113 <i>Precalculus</i> (3)
ECON 1101 <i>Principles of Economics</i> (3)	MATH 1127 <i>Intro to Statistics</i> (3)
ECON 2105 <i>Macroeconomics</i> (3)	MATH 1131 <i>Calculus I</i> (4)
ECON 2106 <i>Microeconomics</i> (3)	MUSC 1101 <i>Music Apprec.</i> (3)
ENGL 1102 <i>Literature &amp; Comp.</i> (3)	PHYS 1110(L) <i>Conc. Phys + Lab</i> (4)
ENGL 2110 <i>World Literature</i> (3)	POLS 1101 <i>American Govt.</i> (3)
ENGL 2130 <i>American Literature</i> (3)	POLS 2401 <i>Global Issues</i> (3)
HIST 1111 <i>World History I</i> (3)	PSYC 1101 <i>Intro Psychology</i> (3)
HIST 1112 <i>World History II</i> (3)	PSYC 2103 <i>Human Develop.</i> (3)
HIST 2111 <i>US History I</i> (3)	SOCI 1101 <i>Intro to Sociology</i> (3)
HIST 2112 <i>US History II</i> (3)	SPAN 1101 <i>Intro to Spanish</i> (3)
HUMN 1101 <i>Intro to Humanities</i> (3)	SPCH 1101 <i>Public Speaking</i> (3)
MATH 1101 <i>Math Modeling</i> (3)	

#### Occupational-Related Electives

Any AMCA Course not required in program  
Any MCHT Course not required in program  
COMP 1000 *Introduction to Computers* (3)  
ACCT 1100 *Financial Accounting I* (4)  
IDSY 1130 *Industrial Wiring* (4)  
MGMT 1100 *Principles of Management* (3)  
MKTG 1100 *Principles of Marketing* (3)  
WELD 1000 *Intro to Welding Technology* (3)

For more information about our graduation rates, the median debt of students who complete programs, and other important information please visit our website:  
<http://www.laniertech.edu/GE.aspx>

# Machine Tool Technology

## Degree Program

### MT13

#### Program Description

The Machine Tool Technology Degree program is a sequence of courses that prepares students for careers in the machine tool technology field. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of machine tool theory and practical application necessary for successful employment. Program graduates receive a Machine Tool Technology Associate of Applied Science Degree and have the qualification of a machine tool technician.

#### Program Specific Information

Students are accepted every semester based on course and space availability.

#### Program Length & Availability

4 Semesters

Campus Availability: Oakwood

#### Admissions Requirements

- Must be 16 years of age.
- High school diploma or GED is required prior to admission.  
*(Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)*
- ACCUPLACER Testing, or submit SAT, ACT, CPE, COMPASS, or ASSET test scores.

#### Financial Aid

This program is eligible for the Pell Grant and may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

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