

# CNC & Machine Tool Technology

## Diploma Program

### CAM2

Updated: 5/06/2015  
Effective Term: 201516

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## Curriculum

### Basic Skills – Total of 8 Hours

- ENGL 1010 *Fundamentals of English I* (3)
- MATH 1012 *Foundations of Mathematics* (3)
- EMPL 1000 *Interpersonal Relations* (2)

### Program-Specific Core – Total of 45 Hours

- MCHT 1011 *Intro to Machine Tool* (4)
- MCHT 1012 *Blueprint for Machine Tool* (3)
- MCHT 1020 *Heat Treatment/Surface Grind* (3)
- MCHT 1120 *Mill Operations I* (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)
- MCHT 1119 *Lathe Operations I* (3)
- MCHT 1219 *Lathe Operations II* (3)
- MCHT 1220 *Mill Operations II* (3)
- MCHT 1013 *Machine Tool Math* (3) - OR -
- { MATH 1013 *Algebraic Concepts* (3)  
MATH 1015 *Geometry & Trigonometry* (3) } BOTH

### 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)

Occupational-Related Elective – Choose 3 Hours

**Total: 53 Hours**

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>

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#### Program Description

The CNC and Machine Tool Technology Diploma program is a sequence of courses that prepares students for careers in the CNC and 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 CNC and machine tool theory and practical application necessary for successful employment.

#### 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.

[Click here to jump back to Curriculum](#)

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