

# Computer Numerical Control (CNC) Operator Certificate

[www.pima.edu/cnc-operator-cert](http://www.pima.edu/cnc-operator-cert)

Learn fundamental skills in machine shop operations, including CNC operation, positioning and coordinate systems, and finished part inspection.

**Title IV Financial Aid eligible:** Yes

## What can I do with this certificate?

**Career Options:** Begin a career in machine tool technology as a CNC operator or programmer.

**Academic Options:** Continue your studies by taking classes toward the Machine Tool Technology AAS degree.

## CHOOSE YOUR COURSES WITH YOUR COLLEGE ADVISOR

## Placement

Students must meet prerequisite standards before taking GTM105 required in the pathway below. If you are not prepared for this course based on placement results you will need to take courses to build your skills prior to taking them. The sequence of courses follows.

Math: ICS 081 or MAT 089 through Mod 15 > GTM 105

## Semester Pathway

This pathway is a suggested sequence of courses for full-time students. Part-time students or those with specific interests or transfer needs are encouraged to work with an advisor to develop a unique academic map.

### Semester 1 (Semester total: 14 credits)

**CAD 117:** Print Reading with CAD for Manufacturing (4 credits)

**GTM 105:** Applied Technical Mathematics (3 credits) Take first 8-week session

**MAC 100:** Introduction to Machine Tool (3 credits)

**MAC 150:** Computer Numerical Control (CNC) Mill Programming I (4 credits) Take second 8-week

### Semester 2 (Semester total: 15 credits)

**CAD 172:** Geometric Dimensioning & Tolerancing (3 credits)

**MAC 125:** Inspection Quality Assurance (4 credits)

**MAC 155:** Computer Numerical Control (CNC) Mill Programming II (4 credits)

**MAC 160:** CNC Lathe Programming (4 credits)

**PROGRAM TOTAL: 29 credits**

Gainful Employment information: [www.pima.edu/ge-crtcno-cno](http://www.pima.edu/ge-crtcno-cno)

Program/Major/Concentration Codes: **CRTCNO/CNO**

Find more information about this program at:  
[www.pima.edu/cnc-operator-cert](http://www.pima.edu/cnc-operator-cert)