CNC Machining Technology

Department: Industrial Technologies
Degree: Associate of Applied Science
Entry time: Fall
Length: 2 years (4 semesters and 1 summer)

Program Description
Kirkwood’s Computer Numerical Control (CNC) Machining program provides instruction in the manufacturing of precision parts and products. The traditional production machinist role has evolved to the production machining that requires many configurations for short runs to meet just-in-time delivery demands of customers.

Program graduates will be able to program, edit, configure, and operate CNC lathes and mills. CNC students study quality control methods known as statistical process control. Special quality control equipment, such as coordinate measuring machines, are taught in this program. An introduction to advanced automated production methods is included.

Career Opportunities
Machinist
Mold builder
Salesperson
Job shop technician
CNC programmer/operator
Quality control technician
Tool and die maker

Sample Classes
Machinist Mathematics
Machinist Trade Printreading
Job Planning, Benchwork & Layout (NIMS)
Measurement, Materials & Safety (NIMS)
Milling Machine Operations (NIMS)
Microcomputer Applications
CNC Mill Operator (NIMS)
CNC Lathe Operator (NIMS)
CNC Mill Program and Setup (NIMS)
CNC Lathe Program and Setup (NIMS)
CNC Punch Press Operations (NIMS)
Jig and Fixture Design
CNC Lathe Operations (NIMS)
CNC Machining Operations (NIMS)
AutoCAD for Applied Engineering

Certificate Options
Short-term training options are available by earning a certificate. Certificate options for CNC Machining Technology include:

CNC Machining Technology Diploma
1 year (3 terms including summer)

Industry Endorsements Earned:
OSHA 10-Hour General Industry; Adult First Aid with CPR; Forklift Class 1, 3, 4, 5, 7; National Career Readiness Certificate; NIMS Level I; CNC Credentials; AutoDesk/AutoCAD Certificate.

Scholarships
Kirkwood will help you pay for college! Kirkwood awards more scholarships than any other community college in Iowa. For more information and to apply, visit www.kirkwood.edu/scholarships.