



# Wayne County Community College District

## COURSE SYLLABUS

### CNC 122 CNC Machine Controls

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**CREDIT HOURS:** 3.00

**CONTACT HOURS:** 45.00

**COURSE DESCRIPTION:**

This course is an introduction to programming language, program structure and command codes (G codes, M, I, J, etc.). Students will write and execute word address programs, and will continue to build skills in the areas of blueprint reading and Geometric Dimensioning and Tolerancing (GD&T). Students will also begin to utilize machine control systems to properly start-up and warm-up for CNC equipment.

**PREREQUISITES:** None

**COREQUISITES:** CNC 111

**EXPECTED COMPETENCIES:**

Upon successful completion of the course, the student will:

- Demonstrate knowledge of CNC programming language
- Demonstrate skills in identifying materials in advanced applications of blueprint reading
- Demonstrate basic understanding of Geometric Dimensioning and Tolerancing (GD&T)
- Demonstrate knowledge of modern CNC machine controls
- Demonstrate ability to start-up, home machine and run warm-up programs

**ASSESSMENT METHODS:**

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

**GRADING SCALE:**

90%-100% = A  
80%-89.9% = B  
70%-79.9% = C  
60%-69.9% = D  
<60% = E