# Wayne County Community College District

## COURSE SYLLABUS

### CNC 111   Introduction to Computer Numerical Control (CNC)

**CREDIT HOURS:**  3.00

**CONTACT HOURS:**  45.00

**COURSE DESCRIPTION:**
This course is an introduction to the basic concepts of computer numerical control (CNC). Topics include controls, coordinate systems, components, functioning systems of modern day CNC equipment, as well as an introduction to the fundamentals of blueprint reading. This class is designed for the entry-level student as an introduction to advanced manufacturing careers.

**PREREQUISITES:** CNC 122

**EXPECTED COMPETENCIES:**
Upon completion of this course, the student will:
- Accurately interpret blueprint drawings and apply information to product development.
- Demonstrate basic knowledge of manufacturing processes.
- Possess ability to start-up and set-up CNC machines.
- Utilize machine controls on various CNC equipment.
- Set-up machines to execute programs.
- Compute and load programs and/or use Intuitive Programming proficiently
- Demonstrate knowledge of safety standards as they apply to all manufacturing environments.
- Measure and gage parts accurately
- Understand hard part machining.

**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