



Wayne County Community College District

COURSE SYLLABUS

CNC 231 CNC Programming and Machining I

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

In this course students will be introduced to the concepts, industry practices and basic fundamentals of 2D programming and machine set-up. Topics include machine start up, proper warm up procedures, loading and unloading of tools, and securing of stock within modern CNC equipment.

PREREQUISITES: CNC 122

COREQUISITES: CNC 230

EXPECTED COMPETENCIES:

Upon successful completion of the course, the student will:

- Set Operations Manager
- Define machine type (select specific machine)
- Define tool settings and material type (stock set-up)
- Create Tool Path group
- Create 2D Tool Paths
- Demonstrate proficiency in back plot and verify Tool Paths
- Generate CNC documents
- Demonstrate ability to complete project part(s)
- Demonstrate understanding of shop safety

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