



Wayne County Community College District

COURSE SYLLABUS

MAN 220 Fixture Design and Construction

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

In this course students will gain knowledge and understanding of proper construction and utilization of fixtures in clamping and holding irregular shaped parts within modern CNC equipment.

PREREQUISITES: MAN 115, CNC 234

EXPECTED COMPETENCIES:

Upon successful completion of the course, the student will:

- Demonstrate understanding of fixtures and assess fixture needs
- Perform 3D scan and or point-to-point measurements
- Utilize industry specific software to design fixture components
- Exhibit ability to set up a fixture and machine a part
- Exhibit ability to scan part surface and compare to design model

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