



Wayne County Community College District

COURSE SYLLABUS

PDP 250 Reverse Engineering

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

In this course students will develop proper techniques and processes for re-creation of an existing product or part (reverse engineer).

PREREQUISITES: PDP 100, PDP 150

EXPECTED COMPETENCIES:

Upon successful completion of the course, the student will:

- Demonstrate knowledge of reverse engineering processes
- Exhibit knowledge of key feature capture utilizing precision measurement and 3D surface capture equipment
- Determine materials and manufacturing processes to reproduce the part
- Determine any necessary changes between the previous part and the new part
- Facilitate the design of the new product or part
- Perform quality checks to assure all part features meet the design criteria

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