



Wayne County Community College District

COURSE SYLLABUS

CAD 226 ADVANCED UNIGRAPHICS SOLID MODELING

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION:

An advanced Unigraphics solid modeling course that provides students with the ability to model complex free-form surface parts applied to the automotive industry for component engine and sheet metal design.

PREREQUISITE: CAD 222 (Lab Fee)

EXPECTED COMPETENCIES:

Upon successful completion of this course, the student will be able to:

- Navigating through the windows Visual User Environment interface for the purpose of file management and to get into where to access NX.
- Determine where files are located and access them.
- Enter and exit NX, and shutting down the system properly.
- Creating wire frame geometric entities (lines, spindles, arcs filler, chamfers, etc.)

- Using drawing transformation commands to increase efficiency (copy, mirror, array, offsets, etc.)
- Using editing functions to alter drawing move, erase, stretch, etc.)
- Use the view manipulation option to navigate about the screen (zoom, pan, fit, etc.)
- Printing and plotting drawing.
- Creating and executing layers and class selection to separate and categorize data for case of display and access.
- An introduction to solid modeling and its functions.

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