

NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
CAD 202-203 - COMPUTER AIDED DRAFTING AND DESIGN II-III (4 CR.) (4 CR.)

Course Description

Teaches working drawings and advanced operations in computer aided drafting. Lecture 3 hours. Laboratory 2 hours. Total 5 hours per week.

General Course Purpose

To students in various technical disciplines additional knowledge and proficiency in using CAD. Drawing creation will be done utilizing more advanced functions.

Course Prerequisites/Co-requisites

Competency in basic CAD. Prerequisite for CAD 202 is CAD 201 - "Computer Aided Drafting and Design I" or equivalent. Prerequisite for CAD 203 is CAD 202.

Course Objectives

Upon completion of this course, the student will:

- be able to increase skills in applying CAD to technical drafting
- be proficient in using CAD
 - advanced drawing commands
 - aids inquiries (data base structures)
 - advanced drawing and display modes
- complete a project relevant to the student's major field

Major Topics to be Included

- View ports and paper space
- Attributes and their application, editing attributes
- External Reference and its application
- Introduction to AutoCAD 3D
- Viewing 3D drawings
- The User Coordinate System
- Creating composite solid models
- Realistic rendering
- Tailoring AutoCAD
- Customizing menus and icons