

North Hennepin Community College

ENGR 1200: Engineering Graphics

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is designed for people interested in mechanical, civil and aerospace engineering and the Bachelor of Construction Management degree. The student will learn to make AUTOCAD drawings in a Windows environment. The topics that will be covered include: drawing, editing, pan, zoom, view, laying, plotting, dimensioning, blocks, inquiry, purge, DXF, ZIP, UNZIP, XREF, and work in three dimensions.

NOTE: Students who do not have access outside of class to computer hardware capable of running AutoCAD can access the program in the computer lab outside of class time.

B. COURSE EFFECTIVE DATES: 08/27/1997 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. This is an introductory class for students of Engineering, architecture or construction management, using computer-aided design (CAD) software. The software selected for the course is AutoCAD. On completion of the course, students can expect to be able to understand and apply basic CAD commands including file management, two-dimensional drawing, editing, dimensioning and plotting.

D. LEARNING OUTCOMES (General)

1. Navigate the AutoCAD Menu structure. (NHCC ELO 1)
2. Open and edit existing drawings. (NHCC ELO 1)
3. Create basic entities such as lines, circles, arcs and other shapes to precise dimensions. (NHCC ELO 1)
4. Connect entities with precision. (NHCC ELO 1)
5. Add text annotations to drawings. (NHCC ELO 1)
6. Add dimensions to drawings. (NHCC ELO 1)
7. Scale and plot drawings. (NHCC ELO)
8. Initiate, draw and save basic 2D & 3D drawings. (NHCC ELO 1)

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

1. Knowledge of Human Cultures and the Physical and Natural World --Through study in the sciences, mathematics, social sciences, humanities, histories, languages, the arts, technology and professions.