North Hennepin Community College

CMSV 1200: Construction Graphics

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Study of graphic solutions to problems conditioned by traditional and emerging construction document standards. Students will produce construction graphics using computer-assisted processes. The principles of construction graphics are applied to the visualization, communication, and graphical analysis of problems.

B. COURSE EFFECTIVE DATES: 01/13/2014 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Multi-view drawings, pictorial and auxiliary view drawings and how these are used to produce a set of working drawings for a construction project.
2. Production of construction detail sketches and views to communicate with workers in the field.
3. Manipulation of drawings through the use of architectural and civil engineering scales
4. Expression of how a structure would be constructed using two dimensional drawing techniques.
5. Distinguish the differences of typical drawing set elements such as plan, elevation, section and detail views.
6. Employment of techniques necessary to generate a three dimensional computer generated model of a construction project using current design software.

D. LEARNING OUTCOMES (General)

1. Demonstrate the ability to utilize construction graphic techniques. (NHCC ELOs 1,2)
2. Apply computer graphic systems to construction management problems. (NHCC ELOs 1,2)
3. Perform freehand graphic skills. (NHCC ELO 1)
4. Utilize computer software in solving construction design and management problems. (NHCC ELOs 1,2)
5. Interpret construction projects individually and in groups. (NHCC ELOs 1,2)
6. Produce a complete set of architectural drawings. (NHCC ELOs 1,2)

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.

2. Intellectual and Practical Skills - Including: Inquiry and analysis; Critical and creative thinking; Written and oral communication; Quantitative literacy; Information literacy; Teamwork and problem solving.