ARCH 2055: Commercial CAD Studio

A. COURSE DESCRIPTION

   Credits: 3
   Lecture Hours/Week: 1
   Lab Hours/Week: 4
   OJT Hours/Week: *.*

   Prerequisites:
   This course requires the following prerequisite
   ARCH 2027 - Intermediate Revit Architecture 3-D CAD

   Corequisites: None
   MnTC Goals: None

   This course covers creating construction documents for an office/warehouse using computer-aided design (CAD) software. The learning objectives are to understand the necessary drafting standards for a commercial building. Topics covered include analyzing a floor plan, implementing correct material, complying with building codes, and drafting skills. (Prerequisites: ARCH 1002 and ARCH 1052) (1 credit lecture/2 credits lab)

B. COURSE EFFECTIVE DATES: 05/08/2013 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

   1. CAD software
   2. Commercial floor plan
   3. Construction drawings

D. LEARNING OUTCOMES (General)

   1. Examine a commercial building preliminary design.
   2. Calculate stair riser to meet code.
   3. Research elevator to meet code.
   4. Draft industry-standard commercial floor plans.
   5. Design industry-standard commercial elevations plans.
   6. Create industry-standard commercial building sections.
   7. Produce plotting drawings to proper scale.

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

   None

F. LEARNER OUTCOMES ASSESSMENT

   As noted on course syllabus

G. SPECIAL INFORMATION

   None noted