ARCH 2029: Advanced Revit 3D CAD

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 will focus on the creation of a building information model (BIM) of a library, resulting in a
   construction drawing set. Topics covered include advanced modeling commands, linking computer-aided
   design (CAD) drawings, using worksets, and manipulating views to create a variety of construction
   documents. (Prerequisite: ARCH 2027) (1 credit lecture/2 credits lab)

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

C. OUTLINE OF MAJOR CONTENT AREAS
   1. BIM
   2. Advanced Revit modeling
   3. Construction documents

D. LEARNING OUTCOMES (General)
   1. Examine a commercial building preliminary design.
   2. Import and export CAD files that interface with Revit.
   3. Adjust Revit system settings to industry standards.
   4. Operate Revit construction and modify tools.
   5. Enable worksets for work sharing.
   6. Create schedules.
   7. Assemble a detail library.
   8. Modify a family content.
   9. Create construction drawing sheets for plotting to industry standards.
  10. Critique and correct the final construction drawing project.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted