ARCH 2027: Intermediate Revit Architecture 3-D CAD

A. COURSE DESCRIPTION

   Credits: 2  
   Lecture Hours/Week: 1  
   Lab Hours/Week: 2  
   OJT Hours/Week: *.*

   Prerequisites:  
   This course requires the following prerequisite  
   ARCH 2025 - Revit Architectural 3D CAD

   Corequisites: None  
   MnTC Goals: None

   This course is designed to build on the fundamental understanding and skills of a beginning Revit user.  
   The primary objective of this intermediate course is to expand the student's knowledge of the power of  
   BIM (building information modeling). The student will complete a commercial building model utilizing a  
   central model with worksets and all the required software settings and sheet set up for construction  
   drawings. Also, 3D modeled rendering will be explored and the student will create a simple walk through  
   of the project. (Prerequisites: ARCH 2025) (1 credit lecture/1 credit lab)

B. COURSE EFFECTIVE DATES: 12/09/2009 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

   1. Revit  
   2. BIM

D. LEARNING OUTCOMES (General)

   1. Adjust Revit system settings to industry standards.  
   2. Use and modify family content.  
   3. Develop a detail library via importing or drawing.  
   4. Produce a 3D camera views.  
   5. Create section drawing references.  
   6. Plot construction drawing sheets to industry standards.  
   7. Enable worksets for work sharing.  
   8. Import CAD files that interface with Revit.

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

   None

F. LEARNER OUTCOMES ASSESSMENT

   As noted on course syllabus

G. SPECIAL INFORMATION

   None noted