COMMON COURSE OUTLINE:  Course discipline/number/title:  CAD 2440: CAD Portfolio

A. CATALOG DESCRIPTION
   1. Credits: 2 (1 lecture, 1 lab)
   2. Hours/Week: 1 hour lecture, 1 hour lab
   3. Prerequisites (Course discipline/number):  CAD 1039, CAD 2323, CAD 2358, CAD 2460 or instructor’s permission
   4. Co-requisites (Course discipline/number):  None
   5. MnTC Goals (if any):  NA

   Students attending this course should have experience using SolidWorks. Students will create photorealistic renderings, motion analysis of 3D models, animations, and eDrawings. Each student will create an electronic portfolio of their projects for use of interviews. This course will be taught in a state-of-the-art facility featuring the latest release of SolidWorks.

B. DATE LAST REVISED (Month, year):  April, 2013

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Introduction to SolidWorks Office suite
   2. Assembly animation
   3. Walk-through/fly through animation
   4. Photorealistic rendering
   5. eDrawings
   6. Electronic portfolio

D. LEARNING OUTCOMES (GENERAL):  The student will be able to:
   1. Use PhotoWorks 360 to create compelling, near photo-quality images.
   2. Use SolidWorks Motion Manager to show how products move within assemblies.
   3. Create and e-mail eDrawings.
   4. Use online collaboration tools.
   5. Create an electronic resume.

E. LEARNING OUTCOMES (MNTC):  NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
   1. Checking electronic drawing files.
   2. Skill proficiency quizzes
   3. Written tests

G. RTC Core Outcome(S) Addressed:
   - Communication
   - Critical Thinking
   - Global Awareness/Diversity
   - Civic Responsibility
   - Personal/Professional Accountability
   - Aesthetic Response

H. SPECIAL INFORMATION (if any):
   Tuition differential