

Course discipline/number/title: CAD 2440: CAD Portfolio

A. CATALOG DESCRIPTION

1. Credits: 1
2. Hours/Week: 1 lecture
3. Prerequisites (Course discipline/number): CAD 2323, CAD 2324, CAD 2358, CAD 2460
4. 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 e-drawings. Each student will create an electronic portfolio of their projects for use in interviews. This course will be taught in a state-of-the-art facility featuring the latest release of SolidWorks. Students must receive a grade of C or better in all prerequisite courses.

B. DATE LAST REVISED (Month, year): October, 2017

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 on-line collaboration tools.
5. Create an electronic resume.
6. Create an electronic portfolio of drawing for interviewing.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:

Methods may include but not limited to:

1. Checking electronic drawing files,
2. Skill proficiency quizzes
3. Written tests.
4. Drawings

G. RCTC CORE OUTCOME(S) ADDRESSED:

Personal and Professional Accountability. Students will take responsibility as active learners for achieving their educational and personal goals.

H. SPECIAL INFORMATION (if any): None