COMMON COURSE OUTLINE: Course discipline/number/title: CAD 2000: Introduction to CAM

A. CATALOG DESCRIPTION
1. Credits: 3 (1 lect/2 lab)
2. Hours/Week: 5 (1 lect/4 lab)
3. Prerequisites (Course discipline/number): CAD 1230, CAD 1039 or Instructors permission.
4. Co-requisites (Course discipline/number): None
5. MnTC Goals (if any): NA

This course teaches CAM integrated within SolidWorks, all machining operations can be defined, calculated and verified without leaving the parametric SolidWorks assembly environment.

B. DATE LAST REVISED (Month, year): November, 2012

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Menus
2. Basic software functions
3. Machining Processes
4. Introduction & Basic concepts
5. Job templates Parameters & Expressions
6. Default sets
7. Machining Process Table
8. Creating Machining Processes
9. Defining Machining Process Table

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
Successfully use CAM within SolidWorks to generate machine code to make prototype projects.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
1. Skill evaluation
2. Project evaluation
3. Tests
4. Pre and post 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):
Software to be paid for using Tuition Differential.