

CALIFORNIA STATE UNIVERSITY, CHICO

Department of Mechanical Engineering, Mechatronic Engineering, and Manufacturing Technology

Course Summary – Spring 2008

MFGT 201 –Graphics Applications for Manufacturing [2 units] Class No. 3920

PREREQUISITE: MATH 105, MECH 200

COURSE TIME SCHEDULE:

Lecture: Monday 11:00 to 11:50 am in OCNL 438

Lab: Wednesday 11:00 am to 1:50 pm in OCNL 438

INSTRUCTOR: Leonard Fallscheer E-MAIL: lfallscheer@csuchico.edu

OFFICE: O'Connell 425 Office Phone: 898-5320

ME&M Department Phone: 898-5346

OFFICE HOURS: Mon 12 – 1, Tues and Thurs 12 – 2

COURSE OBJECTIVES:

This course deals with advanced solids modeling applications in industrial design and related areas. A student upon completion of this course, should have a basic understanding of the role of solids modeling in product design, assemblies, mass properties analysis, finite element modeling and analysis and computer aided manufacturing. In addition, detail drawings extracted from solid models, including GD&T (geometric dimensioning, and tolerancing), and other forms of industrial graphics communication as defined by drafting standards.

CATALOG DESCRIPTION:

Advanced solid modeling techniques, quality assurance (inspection, metrology, coordinate measuring machines, statistical process control, six sigma) and design considerations (design for manufacturing, rapid prototyping), 1 hour discussion, 3 hours laboratory

TEXTBOOK: Technical Graphics Communication, 3rd edition 2003, Bertolline

COSTS DURING TERM OF COURSE: Lab Fee \$25

EVALUATION PROCEDURE:

Laboratory exercises	50%
Spot tests	10%
Mid-term exam	20%
Final exam.....	20%
Total	<hr/> 100%