SPRING 2010
MFGT 201—Graphics Applications for Manufacturing [2 units]
PREREQUISITE: MATH 105, MECH 200

CLASS MEETINGS: Lecture: Tuesday 1:00 to 1:50 pm
Lab: Thursday 11:00 am to 1:50 pm
Location: OCNL 438

INSTRUCTOR: Daren Otten
OFFICE: OCNL 427 MMEM Dept. Phone: 898-5346
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Mobile Phone: 530-521-7418
OFFICE HOURS: Monday 9am -12pm Wednesday 10:00-12pm and by appointment.

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

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.

REQUIRED TEXTBOOK:
None required

COSTS DURING TERM OF COURSE: Lab Fee $25

Grading:
1 Midterm Exam 20%
1 Final Exam 30%
Unannounced Quizzes 20%
Laboratory 30%
100%

Note: Quizzes and tests can have 1 page of notes. Make-up exams and quizzes are closed book and notes unless prior arrangements are made.

Note: All written assignments will be typed 12 font, New Roman Times, double spaced with 1” margins.

Note: Late assignments, will not be accepted. No make up work is permitted.

Exams will be given on scheduled dates in our regular lecture room. Make-up exams will only be given for documented emergencies.