MFGT 360 – COMPUTER-AIDED MANUFACTURING [4 units]

PREREQUISITES: MFGT 260 and MFGT 201,

COURSE TIME SCHEDULE:
Lecture . . . . . . . Tuesday 5:00 to 7:50 pm OCNL 438
Lab #1 . . . . . . . Thursday 5:00 to 7:50 pm LANG 120

INSTRUCTOR: Leonard Fallscheer, lfallscheer@csuchico.edu

OFFICE: O'Connell 425
Office Phone: 898-5320
Department Phone: 898-5346
Home Phone: 891-4945

OFFICE HOURS: Monday and Thursday 12-1, Tuesday 12-2, and Wednesday 3-4

COURSE OBJECTIVES: To become familiar with computer based manufacturing systems for programming and operating CNC machine tools. Programming methods include manual G-Code, 2½ axis CAM software packages, 3D complex surface machining, and conversational (shopfloor) graphical programming methods.

CATALOG DESCRIPTION: A study of the concepts involved in programming computer numerically controlled (CNC) machines. This course includes integration of computer-aided manufacturing (CAD/CAM). 3.0 hours discussion, 3.0 hours laboratory.

COSTS DURING TERM OF COURSE:
Lab Fee: $25.00 [required]
Safety Glasses: [required – MUST be worn at all times in the labs]
Digital or Dial Caliper: [recommended]

EVALUATION PROCEDURE:
Laboratory exercises and homework 35%
Technical paper and/or presentation 15%
Midterm exam 15%
Final exam 20%
Spot tests 10%
Field trip report 5%
---------
100%

SAFETY POLICY
Everyone in Langdon 120 must wear eye protection and closed-toed shoes at all times. Anyone failing to comply with all lab safety rules will be told to leave the lab immediately and not be allowed to return to the lab that day. Repeated offenses will result in failing the course.