MFGT 362 – MATERIAL JOINING [3 units]

PREREQUISITES: MFGT 160

COURSE TIME SCHEDULE:
- Lecture . . . . . . . Tuesday 11:00 to 12:50 pm PLMS 116A
- Lab #1 . . . . . . . Thursday 10:00 to 11:50 pm PLMS 114
- Lab #2 . . . . . . . Thursday 12:00 to 1:50 pm PLMS 114

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

OFFICE: O’Connell 425  Office Phone: 898-5320
Department Phone: 898-5346

OFFICE HOURS: Monday 1-3 and Tues, Wed & Thurs 2-3

COURSE OBJECTIVES: To give the student a comprehensive overview of the study of the industrial applications of material joining technologies with an emphasis on managing the processes. Adhesive bonding, mechanical fastening and thermal joining -- welding with the associated metallurgy, specimen testing and cost estimating will be covered.

CATALOG DESCRIPTION: A study of the industrial applications of material-joining technology directed toward managing the applications of the processes. Units involving adhesive bonding, mechanical fasteners and welding are included along with metallurgy, specimen testing and cost estimating. 2.0 hours discussion, 3.0 hours laboratory. Special fee required.

TEXTBOOK: Joining of Materials and Structures, Robert W. Messler, Jr. ISBN: 0-7506-7757-0

COSTS DURING TERM OF COURSE:
- Lab Fee: $20.00 [required]
- Safety Glasses: [required – MUST be worn at all times in the labs]
- Protective clothing for welding [recommended]

EVALUATION PROCEDURE:
- Laboratory exercises and homework 35%
- Midterm exam 20%
- Final exam 20%
- Spot tests 10%
- Field trip reports 5%
- Technical paper 10%

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100%

SAFETY POLICY
Everyone in the Plumas 114/116 labs must wear eye protection and closed-toed shoes at all times except in areas between the entrance door and the yellow/black limit lines. 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.