

CALIFORNIA STATE UNIVERSITY, CHICO

Department of Mechanical Engineering, Mechatronics Engineering, and Manufacturing Technology
Course Summary – Fall 2008

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%

	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.