

CALIFORNIA STATE UNIVERSITY, CHICO

Department of Mechanical Engineering, Mechatronic Engineering and Manufacturing Technology

Course Summary – Spring 2008

MFGT 468 -- Manufacturing Tooling [4 units]

Class Number 3916

PREREQUISITES: MFGT 218, MFGT 360 and MFGT 458

COURSE TIME SCHEDULE:

Lecture	– Monday	5:30 to 8:20 pm	Langdon 119B
Lab	– Wednesday	5:30 to 8:20 pm	Langdon 120

INSTRUCTOR: Leonard Fallscheer

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OFFICE: O'Connell 425

Office Phone: 898-5320

Department Phone: 898-5346

Home Phone: 891-4945

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

COURSE OBJECTIVES:

This course is designed to familiarize the student with tool design concepts in manufacturing that promote increased production while maintaining quality and lowering costs. The course will include units on cutting tools, machine tools, jigs and fixtures, gaging and inspection, and dies for cutting and forming. Tooling for the polymer manufacturing industries will also be covered.

CATALOG DESCRIPTION:

A course designed to familiarize the manufacturing technology student with production tooling as used in the manufacture or assembly of component parts produced from either metal or plastic. 2.0 hours discussion, 3.0 hours laboratory. Special fee required; see [The Class Schedule](#). Formerly MFGT 255.

TEXTBOOKS (Required): *Fundamentals of Tool Design, 5th Edition (ISBN 0-87263-650-X)*
(Optional): *Mold Engineering, 2nd Edition (ISBN 1-56990-322-0)*
Machinery's Handbook (any edition)

COSTS DURING TERM OF COURSE:

Lab Fee: \$20.00 [required]

Safety Glasses: [required – MUST be worn at all times in the labs]

LAB SAFETY POLICIES and PROCEDURES:

Read and understand the Department's Lab Safety Policies and Procedures
Fill out the *Acknowledgement of Lab Safety Policies and Procedures* form, sign it and turn it in for filing.

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%