

**MSE 528 L, PRINCIPLES OF MATERIALS ENGINEERING AND LAB
Fall 2010**

Wed. 20:10-22:50 pm, JD 1504

Instructor: **Lisa Reiner** Office: **JD1130** Phone: **(818) 677-7746**

Lab website: http://www.csun.edu/~bavarian/mse_528.htm

Date	Group 1	Group 2	Group 3	Group 4
Aug 25	Introduction	Introduction	Introduction	Introduction
Sept 1	Tensile Test	Metallography	Cold working	Age hardening Al
Sept 8	Metallography	Tensile Test	Heat Treatment of Steel	Cold working
Sept 15	Cold Working	Hardness-Micro	Tensile Test	SEM/EDAX-1
Sept 22	Hardness-Micro	Cold Working	Metallography	SEM/EDAX-2
Sept 29	SEM/EDAX-1	Heat Treatment of Steel	Phase Transformation	Metallography
Oct 6	SEM/EDAX-2	Phase Transformation	Hardness-Micro	Tensile Test
Oct 13	Heat Treatment of Steel	SEM/EDAX-1	Age hardening Al	Hardenability of Steel
Oct 20	Phase Transformation	SEM/EDAX-2	Hardenability of Steel	Hardness-Micro
Oct 27	Hardenability of Steel	Age hardening Al	SEM/EDAX-1	Heat Treatment of Steel
Oct 27	Project Outlines due			
Nov 3	Age hardening Al	Hardenability of Steel	SEM/EDAX -2	Phase Transformation
Nov 10	Project	Project	Project	Project
Nov 17	Project	Project	Project	Project
Nov 24	Project	Project	Project	Project
Dec 1	Project	Project	Project	Project
Dec 8	Final presentation and Group report due			

Lab information is on MSE 528 website. Individual grades are based on participation and contribution to group work and reports. Attendance is mandatory for lab.

Grading

5 memo reports:

65%

- Tensile test
- Hardness: Micro, Rockwell, Brinell
- Heat Treatment of Steel
- Phase Transformation (TDA)
- Age hardening

Formal Project Report (1 per group)

15%

PPT Presentation (1 per group -15 minutes)

10%

Participation, Attitude, Contribution to group work

10%

Labs are due 2 weeks after assigned – Must submit hard copy in lab, no email submission, no late reports accepted.