

**MSE 528 L, PRINCIPLES OF MATERIALS ENGINEERING AND LAB
Fall 2012**

Wed. 19:00-21:50 pm, JD 1504

Instructor: **B. Bavarian** Office: **JD3513** Phone: **(818) 677-3917**

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

Date	Group 1	Group 2	Group 3	Group 4
29-Aug	Introduction	Introduction	Introduction	Introduction
5-Sep	Metallography-1	Metallography-2	Cold working	SEM/EDAX-1
12-Sep	Metallography-2	Metallography-1	Heat Treatment of Steel	SEM/EDAX-2
19-Sep	Cold Working	Hardness-Micro	Metallography-1	Age hardening Al
26-Sep	Hardness-Micro	Cold Working	SEM/EDAX-1	Metallography-2
3-Oct	SEM/EDAX-1	Heat Treatment of Steel	Phase Transformation	Phase Transformation
10-Oct	Phase Transformation	Phase Transformation	Hardness-Micro	Metallography-1
17-Oct	Heat Treatment of Steel	SEM/EDAX-1	Age hardening Al	Hardenability of Steel
24-Oct	SEM/EDAX-2	Age hardening Al	Hardenability of Steel	Hardness-Micro
31-Oct	Hardenability of Steel	SEM/EDAX-2	Metallography-2	Heat Treatment of Steel
31-Oct	Project Outlines due			
7-Nov	Age hardening Al	Hardenability of Steel	SEM/EDAX -2	Cold working
14-Nov	Project	Project	Project	Project
21-Nov	Project	Project	Project	Project
28-Nov	Project	Project	Project	Project

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:

60%

- Metallography-1
- Hardness: Micro, Rockwell
- Heat Treatment of Steel
- Phase Transformation (TDA)
- Age hardening

Formal Project Report (1 per group)

20%

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.