ME 218a Smart Product Design Fundamentals

Tues., Thurs., 11:15 am - 1:05 pm, Terman 556, 5 Units

http://spdl.stanford.edu/

Personnel

Instructor	Ed Carryer	
	Office	511 Terman, office hours - TTh 1:15 - 3:00 pm and by appointment
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Teaching Assistants	Ben Lipson	
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Lecturer/SPDL Lab Manager	Matt Ohline	
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Laboratory Coaches

Santiago Alban <salban@leland.Stanford.EDU>   Emily Clark <emilyc@stanfordalumni.org>

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Prerequisites

No specific course numbers. We are assuming that everyone has had at least 1 course in circuit analysis (Ohms law, etc.) and 1 programming course (preferably C , Pascal or other block structured language). As a result we will do only a quick review of circuit analysis, and will not try to teach you to program. We will introduce 2 programming languages, but will assume that you are familiar with basic programming constructs and methodology.

If you feel, after looking over the syllabus, that you already know the material we will be covering but are still interested in taking 218B please see the instructor after the first class meeting. ME 218A is a firm prerequisite for 218B, unless prior arrangements are made.

Textbooks

<u>The Art of Electronics</u>, second edition, Horowitz & Hill (Stanford bookstore)
<u>Starting Forth</u>, second edition, Brodie (Optional if you are know Forth)(SPDL)
<u>The Art & Science of C</u>, Roberts (Optional if you are fluent in C, same as CS106a)(Stanford bookstore)

Grading

<u>Course</u>

50% Labs and Project
50% Homework, Quizzes, and Exams

<u>Homework,</u>
<u>Quizzes, and Exams</u>

15%	Mid-Term, 10/23-10/26, Take Home
20%	Final 12/6-12/13, Take Home
10%	Quizzes
5%	Homework

<u>Labs and Project</u>

6%	Lab 0
6%	Lab 1
6%	Lab 2
6%	Lab 3
11%	Lab 4
15%	Project

<u>Late Policy</u>

1 day	90% Credit
2 days	70% Credit
3 days	50% Credit
4 days	25% Credit
>5 days	10% Credit

Laboratory

Thornton Center (Terman Annex) 201   723-7209
Open 24Hrs./ 7 Days a week.
Staffed by a lab coach week-nights approx. 7-10pm
Sign-up for workstations on the SPDL web site
Sign up on the sheets in the lab during the first week for your quarter-long guaranteed slot.

<u>Lab Fee:</u>

$75. Covers parts kit and proto-board required to do the labs.
$15. Covers cost of photocopying.
Total $90 check made payable to Stanford University
No Cash
Pay and Pick up kits and Notes in Thornton 203, No fees accepted until the class list is posted,
No lab kits issued w/o payment!