MECHE 138 - INTRODUCTION TO MICRO/NANO MECHANICAL SYSTEMS LABORATORY (3 UNITS)

(Taken from the UC Berkeley Course Guide (http://guide.berkeley.edu))

COURSE OVERVIEW

SUMMARY

This hands-on laboratory course focuses on the mechanical engineering principles that underlie the design, fabricaton, and operation of micro/nanoscale mechanical systems, including devices made by nanowire/nanotube syntheses; photolithography/soft lithography; and molding processes. Each laboratory will have different focuses for basic understanding of MEMS/NEMS systems from prototype constructions to experimental testings using mechanical, electrical, or optical techniques.

PREREQUISITES

EE 16A or 40, Physics 7B, ME 106, (ME119 or ME118 are highly recommended but not mandatory)

Spring only

WORKLOAD

TIME COMMITMENT

2 hours of lecture and 3 hours of laboratory per week.

UC Berkeley Course Guide (http://guide.berkeley.edu)

COLLEGE OF CHEMISTRY PEER SERVICES

Made by Angela Lee, c/o 2019

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