

COLLEGE OF CHEMISTRY COURSE GUIDE (../INDEX.HTML)

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MSE 117 - PROPERTIES OF DIELECTRIC AND MAGNETIC MATERIALS (3 UNITS)

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

COURSE OVERVIEW

SUMMARY

Introduction to the physical principles underlying the dielectric and magnetic properties of solids. Processing-microstructure-property relationships of dielectric materials, including piezoelectric, pyroelectric, and ferroelectric oxides, and of magnetic materials, including hard- and soft ferromagnets, ferrites and magneto-optic and -resistive materials. The course also covers the properties of grain boundary devices (including varistors)

PREREQUISITES

Physics 7A-7B-7C or Physics 7A-7B and consent of instructor; 111 is recommended

WORKLOAD

TIME COMMITMENT

3 hours of lecture per week.

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

COLLEGE OF CHEMISTRY PEER SERVICES

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