

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

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PHYS 141B - SOLID STATE PHYSICS (3 UNITS)

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

COURSE OVERVIEW

SUMMARY

Part II. A thorough introductory course in modern solid state physics. Crystal symmetries; classification of solids and their bonding; electromagnetic, elastic, and particle waves in periodic lattices; thermal magnetic and dielectric properties of solids; energy bands of metals and semi-conductors; superconductivity; magnetism; ferroelectricity; magnetic resonances.

PREREQUISITES

PHYS 137A ([phys137a.html](#)), PHYS 137B ([phys137b.html](#)) and PHYS 141A ([phys141a.html](#))

Spring only

WORKLOAD

TIME COMMITMENT

3 hours of lecture and 1 hour of discussion 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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