

Instructor: Dr. Michael J. Bozack, 310 Allison, 844-4363
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Website: <http://www.physics.auburn.edu/aussl>
Text: Lecture Notes (supplied)
Meetings: TTh 8-9:15 am

SCHEDULE

Topics

Crystal Structures
Crystal Diffraction, Reciprocal Lattice
Lattice Vibrations and Chemical Bonding
Thermal Properties of Insulators
Free Electron Model and Heat Capacity
Energy Bands in Solids
Fermi Surfaces and Bloch Functions
Electron and Hole Motion; Effective Mass
Semiconductors
Surface Physics

Final Exam (comprehensive): Tuesday, May 6, 9:00-11:30 a.m.

Grading: The final grade will be determined by the following scheme.

Exams (3)	45%
Final Exam	25%
Problem Sets	30%
Total	100%

Student scores will be curved to determine the final course grade.

Exams: UNDER NO CIRCUMSTANCES will makeup exams be given. Exams will cover material covered in class and homework problems.

Office Hours: Nearly any afternoon. Drop by the surface physics laboratory, 310 Allison.