PHY 4510 SYLLABUS Fall 2008

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Textbook
Introduction to Solid State Physics
Charles Kittel

Topics

Wk 1: Sept 1	Ch 15 – Optical Processes and Excitons
Wk 2: Sept 8	↓
Wk 3: Sept 15	Ch 14 – Plasmons, Polaritons and Polarons
Wk 4: Sept 22	↓
Wk 5: Sept 29	Ch 11– Quantum Theory of Paramagnetism
Wk 6: Oct 6	Ch 12 – Ferromagnetism and Magnons
Wk 7: Oct 13	↓
Wk 8: Oct 20	Ch 10 – Superconductivity
Wk 9: Oct 27	↓
Wk 10: Nov 3	Ch 8 – Semiconductors
Wk 11: Nov 10	Ch 16 – Dielectrics and Ferroelectrics
Wk 12: Nov 17	↓
Wk 13: Nov 24	Thanksgiving Recess
Wk 14: Dec 1	Ch 7 – Energy Bands and Bloch Theorem
Wk 15: Dec 8	↓

Grading Scheme: Grade is based on class participation and homework. Class participation includes student presentations and class discussions. Hence attendance is a criterion. No exams are planned.