

Physics 520B - Electrodynamics

Spring 2009 MWF at 11:00am - 11:50am in Neckers 410

Lecturer: Leo Silbert
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Office Hours: MWF 2pm - 4pm or by appointment

Course Outline

Essentially we will cover, in part, Chapters 6-14 of Jackson's textbook:-

- i) Maxwell's Equations
- ii) Electromagnetic Waves & Wave Propagation
- iii) Waveguides and Resonant Cavities
- iv) Radiation
- v) Scattering & Diffraction
- vi) Special Theory of Relativity

Course Textbook:

Classical Electrodynamics, J. D. Jackson, 3rd Ed. (Wiley, ISBN: 047130932X).

Other

Introduction to Electrodynamics, D. J. Griffiths, 3rd Ed. (Prentice Hall).

Grading

Homework (to be assigned weekly or biweekly)	40%
Mid-term Exam	25%
Final Exam (compulsory)	35%

FINAL GRADE

A : >90%; B: 75% - 90%; C: 60% - 74.99%; D: 50% - 59.99%; F: <50%

Please be aware of the SIUC Student Conduct Code available at the SIUC website:

<http://www.siu.edu/~policies/policies/conduct.html>

Please also note the following emergency procedures policy. Make sure you review the emergency response information available at the websites listed below or dotted around campus buildings.

Emergency Procedures. Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT's website at www.bert.siu.edu, Department of Safety's website www.dps.siu.edu (disaster drop down) and in Emergency Response Guideline pamphlet. Know how to respond to each type of emergency.

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.