Physics 222, Modern Physics, Summer 2011
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Lectures: MWF 2:00-3:35pm, MPHY 204
Office Hours: MWF 3:45-4:45pm, ENPH 462
Required textbook: Modern Physics, Thornton and Rex, third edition
Grading: 3 hourly exams (20% each) 60%, Comprehensive Final (Aug 10) 30%, Homework 10%

This course covers Special Relativity and Quantum Theory, and related topics developed in physics in the period since 1900. This includes physics of the atom, and will lead up to an introduction to solid state physics and nuclear physics. The order of topics will be that of the text, and will follow the schedule below (subject to change as the course proceeds):

Jun 1, 3 read ch. 1 (all) and ch. 2, sections 1-10
Jun 6, 8, 10 read ch. 2, sections 11-13
Jun 13, 15 ch. 3 sections 1-8, ch. 4 sections 4-6.
Jun 17 (Friday) Exam A covers chapters 1-3
Jun 20, 22, 24 read ch. 5.1-5.7, 6.1-6.3
Jun 27, 29 read ch. 6.4-7
Jun 1 (Friday) Exam B covers chapters 4-6
Jul 7, 9 read 7.1-7.6
Jul 12, 14, 16 read 8.1, 9.2-9.6
Jul 19, 21, 23 read 9.5-9.7, 10.1-10.2, 10.5
Jul 26, 28 read 11.1-11.3, 12.2-12.5
July 30 (Friday) Exam C covers chapters 7–10
Aug. 2, 4, 6 read 12.6-12.8, 13.4, 13.6
Aug 9 continuation and review
August 10 Final Exam (comprehensive) 3:30-5:30 PM

Although there are different instructors for the two halves, a single grade is assigned for the entire course, according to the grading scheme above. Exams will be held in class, as scheduled above, with the final exam held Aug. 10, at the standard time for MWF 2:00 classes. In the case of a missed exam you should see the instructor, but a well-documented excuse is needed for any special arrangements.

ADA Note: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for with Disabilities, in Room 126 of the Koldus Building or call 845-1637.

Aggie Honor Code “An Aggie does not lie, cheat, or steal or tolerate those who do.”
All work for this course will be governed by the Aggie Honor Code. To familiarize yourself with these rules they can be found on the web at: http://www.tamu.edu/aggiehonor.