Physics 252

University Physics II: Electromagnetics and Optics
Class Number: 7684
Meeting Times: MWF 9:00 – 9:50am and Tu 8:15 – 9:05am
Meeting Place: Ladd 107
Midterms: Fri Feb. 9 and Wed. Mar. 7
Final Exam: Mon. May 7, 8:00 – 10:00am
North Dakota State University
Spring 2007

Instructor: Dr. Terry Pilling
Email: terry.pilling@ndsu.edu
Office: 201 South Engineering
Telephone: 231-5780

Description: Physics 252 is a detailed introduction to electromagnetism. The 4 credit course for engineering/science students requires an understanding of Math 165 (prereq/coreq). There are four lectures each week with a pace which covers almost a chapter per week.

Course Objectives: Students completing Physics 252 should be able to solve electrostatics, electrodynamics, circuits and optics problems as well as gain an introduction to Einstein's theory of relativity.

Text: Chapters 21 through 37 of *Fundamentals of Physics* by Halliday, Resnick, & Walker, 7th Edition, Wiley (2004).

Lectures: Meet at 9:00 – 9:50 MWF and 8:15 – 9:05 Tuesday in Ladd 107.

Assignments: The homework assignments can be found on the LON CAPA system. The homework sets are due on the date specified and late homework will not be accepted for any reason. The LON CAPA homework problems are the minimum number of problems that you should work out and you should do additional problems from the end of the chapters on your own. The only way to learn physics is to do as many different types of problems as you can. I also encourage you to work together in groups if you find it more instructive to do so.

Extra Help: If you find you would like some extra help I recommend that you make use of the tutor room. This is located on the 3rd floor in South Engineering. A schedule of the tutor availability will be posted.

Exams: During the semester, two one-hour exams will be given, and at the end of the semester there will be a comprehensive final exam. The in class exams will be given on Friday Feb. 9 and on Wednesday Mar. 7. The final exam will be given on Monday, May 7 from 8:00am to 10:00am. You now have the complete schedule of exam dates and times. Do not schedule any other activity during these time as there will be no makeup exams.

Office Hours: If you are having difficulty with LON CAPA problems or problems from the text you should first visit the tutor room on the third floor of South Engineering. We employ these tutors specifically to help you with your physics problems so I encourage you to make use of them. If you have other concerns I will be in my office any day immediately following class, or you can schedule (by email or phone) an appointment.

Grades: Your final grade in physics 252 will be determined on the following basis:

Exams		Letter Grading
Homework	30%	89.5 to 100% = A
Exam I	20%	79.5 to 89.4% = B
Exam II	20%	69.5 to 79.4% = C
Final Exam	30%	59.5 to 69.4% = D

Depending on the class average, curving may be applied to grades.

Special Considerations: Students with disabilities or other special needs, who need special accommodations in this course, are invited to share these concerns or requests with the instructor as soon as possible. Extra time on exams must be requested by formal letter from the NDSU department of disability services and administered through that department. Students claiming disability without legitimate documentation will not be granted special privilages and advantages over their classmates.

Academic Responsibility: All work in this course must be completed in a manner consistent with NDSU University Senate Policy, section 335: Code of Academic Responsibility and Conduct (http://www.ndsu.nodak.edu/policy/335.htm)