

Physics 252

University Physics II: Electromagnetics and Optics
Class Number: 3175 North Dakota State University
Fall 2006

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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 11:00 – 11:50 MWF in Minard 219 and 11:00 – 11:50 Tuesday in Fam Life C 124.

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. In addition there are Super Tutors. The Super Tutor schedule for various courses can be found at

http://www.ndsu.edu/student_success/super_tutor/schedule.shtml

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 Wednesday Sept. 27 and on Wednesday Nov. 1. The final exam will be given on Wednesday December 13 from 1:00pm to 3:00pm. 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. If you have other concerns I will be in my office Mon, Tues, and Wed 1:15 to 2:15 p.m. 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 privileges 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>)