

Physics 294H

Honors Physics II – Electromagnetism & Optics

Fall 2012 Syllabus

Course Description: Electricity, Magnetism and Optics

Pre-requisites: PHY193H
MTH133 or MTH153H or LBS119 or concurrently

Instructor: Prof. Kirsten Tollefson, tollefson@pa.msu.edu
3247 Biomedical Physical Sciences Building, 884-5568

Lectures: 9:10-10:00am , MTuWTh, Room 1420 BPS

Office Hours: Tuesdays 10:30-11:30am or by appointment

Textbook: *Physics for Scientists and Engineers, 3rd edition*
By R.D. Knight, Volumes 3 and 4

Course Info: <http://www.pa.msu.edu/courses/2012fall/PHY294H/> and
within LONCAPA at <https://msu.lon-capa.org/>.

Homework: There will be 12 homework assignments (worth 15% of your grade) using the LONCAPA system that are due on Mondays at 11:59pm, except for the first and last assignments (see course schedule). One of the advantages of LONCAPA is that students may enter solutions to questions and immediately know if they are correct. Incorrect answers may be entered many times without penalty and credit is earned if the correct answer is entered within a prescribed number of trials prior to the due date. The LONCAPA system is accessible via most web browsers, in particular using computers in the Strosacker learning center, BPS 1248. There is also a discussion forum within LONCAPA where students can post and answer questions. Each homework problem is worth 1 point.

Reading: Students are expected to read the chapters listed in the course schedule prior to each lecture. In-class quizzes will often require an understanding of the contents of the chapter. A re-reading of the chapter after the lecture is recommended.

Quizzes: There will be unannounced quizzes during lectures using the iClicker system. You will get 2 points for a correct answer and 1 point for an incorrect answer. At the end of the course if you

have >80% of the quiz points you will receive full credit (7%) for the quizzes. There is no make-up for missed quizzes.

Exams: There will be three 50 minute in-class midterms (each worth 15%) and one 2 hour final exam (worth 35%). All exams are closed book but a one-sided, handwritten, 8x11 helpsheet will be allowed. The midterm exams will have correction sets as a homework assignment with 30% of the positive difference between the correction exam and the in-class exam added to your midterm score. The corrections set is not available to students who missed an exam. The final exam will not have a correction set. Any absences from midterm exams require a written excuse from your doctor, Dean, coach, etc. The MSU Code of Teaching Responsibilities states that any student not taking the final exam will not be permitted to pass the course.

Disabilities: Students with disabilities or/and any other special needs should identify themselves to the instructor during the first week of classes. Individual arrangements will be made to accommodate those needs on a case-by-case basis. It may not be possible to honor VISAs that are presented to the instructor after the first week of classes.

Grades: Your final grade will be calculated based on the contributions given below:

Homework	15%
Quizzes	7%
Midterm Exams (15% each)	45%
Final Exam	35%

This adds up to 102% and includes 2% bonus points for potentially missed quizzes.

Grading Scale: Final grades will be assigned based on the following thresholds:

Grade	% of total points
4.0	≥92%
3.5	≥84%
3.0	≥76%
2.5	≥68%
2.0	≥60%
1.5	≥52%
1.0	≥44%
0.0	<44%

This grading scale might be lowered, but it will not be raised.