

COURSE SYLLABUS Physics 1404-002, Fall 2008

Course Objective: To develop skills to translate between descriptive, pictorial, graphical and mathematical representation of the same concept in problem-solving strategy. Students will learn laws of motion and conservation laws and apply them in solving problem with respect to electro static and dynamic phenomena and propagation of electromagnetic waves.

Learning Outcome: We will record the student's responses during the course of lecture in class meetings to assess their learning outcome. Accordingly certain questions in the exams will explicitly require the course objective to use as learning assessment tools.

Course Coverage: Material in chapters, mentioned overleaf will be covered

Grades: The course grade will be determined from three (3) in-class tests, each of 15%, final 30%, homework 20%, and lab 20%. One of the lowest tests or half final will be dropped.

The grade scale will be approximately: $A \geq 90 > B \geq 80 > C \geq 70 > D \geq 60 > F$

Homework: consists of online homework sets from the **Homework Service**. Submit each set online by the specified deadline. The homework will be scored online. Doing the home work yourself is very important for success in this course. Your examination grades generally reflect how well you understood the homework.

Examinations: The examinations are closed book. You may bring a 3" x 5" card with the material of your choice in the exams. Only **simple calculators** without any material stored are allowed. The in-class test will last for 20 minutes. The lectures will be given for remaining time.

Make-up examinations: will not be given. In a serious emergency, please contact me to find out how a missing grade will be determined.

IMPORTANT: Experience shows that **you must spend at least 3 hours outside of class for each hour of class meeting** on the lecture part of this course. (The laboratory is extra) Plan on spending about half of your time on your lecture notes and the textbook, and the other half on the homework. Carefully take notes in class. **I encourage you for questions and discussions in the class.** Review the new material in the textbook before each class.

Attendance: I expect you to attend class regularly except for real emergencies. Skipping class generally results in very low course grade.

Withdrawal Policy: Consistent with University policy, i.e. an automatic "W" if you withdraw by the posted deadline. A "W" will be given if you pass the exams with at least a "D" at the time of withdrawal/dropping the course or "WF" if your exam score is below "D" at the time.

NOTE: Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact their instructor as soon as possible so that necessary arrangements can be made.

Instructor: M.A.K. Lodhi, Office SC 111; Office Hours: MWF 4:00 – 5:00 pm; MWF 3:00 – 3:50 pm.

Text: *Physics, D.C. Giancoli, 6th edition, 2005, Prentice Hall.*

The chapters will be covered in the order listed below.

Date	Chapter	Questions & Problems
August 25	16	Q: 2,3,12,15
August 27	16	P: 1,5,8,12,18
August 29	16	
September 3	17	Q: 2,9,10
September 5	17	P: 1,12,14,17,31,42,46
September 8	18	Q: 1,7,11,18
September 10	18	P: 2,8,9,12,30,46
September 12	19	Q: 3,8,12,14
September 15	19	P: 3,8,18,23,26,50
September 17	20	Q: 3,6,14,21
September 19	20	P: 3,10,11,20,27,49
September 22	21	Q: 2,8,18
September 24	21	P: 1,4,6,30,34
September 26	22	Q: 1,5,7
September 29	22	P: 3,8,12,13,37
October 1	Exam 1	
October 3	23	Q: 7,9,18
October 6	23	P: 1,8,24,31,39,47
October 8	24	Q: 6,12,17
October 10	24	P: 5,16,31,39
October 13	25	Q: 3,6
October 15	25	P: 4,12,27,32,51
October 17	26	Q: 9,15,16
October 20	26	P: 3,10,14,18,27,45
October 22	27	Q: 2,11,22
October 24	27	P: 6,17,35,42,58
October 27	28	Q: 4,13,17
October 29	28	P: 1,7,18,25,48
October 31	Exam 2	
November 3	30	Q: 2,14
November 5	30	P: 6,23,56
November 7	31	Q: 18,21
November 10	31	P: 3,12,19,47
November 12	32	Q: 3,12,19,47
November 14	32	P: 3,12,19,47
November 17	33	Q: 2,12
November 19	33	P: 7,9
November 21	Exam 3	
November 24	Review	
December 1	Review	
December 3	Review	
December 6	Final 7:30 a.m.	