Tentative Syllabus for Physics 335: Fall 2014

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Office Hours

I will schedule several office hour blocks. I will be very close to my office or research lab during these times. Otherwise, I will usually be close to my office or research lab. If you want to find me outside of office hours, make an appointment so that you will be sure to find me. My schedule is located on the physics home page which you may review to determine office hours.

Grading

As a general guide to grades, grades will be assigned as follows:

100-90]	(90-80]	(80-70]	(70-60]	<(60
A	B	C	D	F

In this course, you will have several grading opportunities, tests, homework, in-class problems and laboratory projects. The various weight of each of these activities in your final point grade is shown below. **Late assignments will normally not be accepted. Additionally, since we will be doing in-class problems, poor attendance will negatively affect your grade: in particular, you will not receive credit for class participation for unexcused absences. There are no make-ups for in-class worksheets. About labs: A brief lab report will be normally due within 1 week of the lab completion. Labs will be done in accord with topics which we are covering as shown on the syllabus. We will be doing approximately 5 labs during this course.**

Tests (3 tests)=75%
Each test is worth 25% of your grade.
Homework / in-class problems / participation=15%
Laboratory projects =10%
All lab projects must be completed or your course grade will be reduced by 10%.

Your work on tests will be graded for correctness and clarity. **Failure to supply details leading to a result will result in very little credit for a problem**. If you want full credit for a problem, **you must** supply the logical steps that led to the result and the result **must include proper units**. Diagrams should be included where appropriate to define quantities used in your result. Homework and worksheets will be graded for completion. Students are generally expected to commit two hours of study outside of class for each hour of lecture.

Course Description

In this course you will be exposed to the fundamentals of modern physics with topics including relativity and quantum mechanics.

Course Objectives

As a consequence of this course, you should obtain an enhanced understanding of the fundamentals of modern physics. In addition, you should come away from this course with an ability to solve fundamental problems involving physical principles. The particular topics covered in this course are outlined in the schedule. Depending upon class interest, the actual topics may vary slightly from those stated. Refer to Student Learning Outcomes for a discussion of minimal course outcome expectations.

Course Prerequisites

You are **expected** to be proficient with algebra and trigonometry . In addition students should have course work in calculus and should have completed [Phy210/240:241] and [Phy220/250:251].

Text

Physics 335:
Modern Physics for Scientists and Engineers
Third Edition
By: Stephen T. Thornton and Andrew Rex

You may use earlier editions of this text (which can be obtained at much lower prices online {$0.25 for example is a low price}) but you will need to be sure to read the correct portions of the text.

The schedule is designed around this particular text edition. You may use earlier or later editions but you will need to be sure to read the correct portions of the text. The text must be considered to be a very important resource so students are expected to be reading along in the text as the course progresses.

You have many resources on the campus: the library, your colleagues and your professor. Your prime learning resource, however, must be considered to be the classroom: **punctual** and **complete** class attendance is expected**. Unexcused absences will negatively impact your final grade: in particular, you will not receive credit for class participation for unexcused absences. Tardiness is considered to be an unexcused absence and will negatively impact your final grade. Absences will negatively impact your final grade. Tardiness is considered to be an unexcused absence and will negatively impact your final grade. Use of a networked device to communicate during class will be considered equivalent to an unexcused absence.**

Attendance

The Lyon College Catalogue for 2014-2015 states:

Students are expected to attend all class periods for the courses in which they are enrolled. They are responsible for conferring with individual professors regarding any missed assignments. Faculty members are to notify the Registrar when a student misses the equivalent of one, two, three, and four weeks of class periods in a single course. Under this

policy, there is no distinction between “excused” and “unexcused” absences, except that a student may make up work missed during an excused absence. A reminder of the college’s attendance policy will be issued to the student at one week, a second reminder at two weeks, a warning at three weeks, and notification of administrative withdrawal and the assigning of an “F” grade at four weeks. Students who are administratively withdrawn from more than one course will be placed on probation or suspended (see Academic Probation and Academic Suspension).

Academic Honesty

It is expected and encouraged that students in this class will work together on homework problems. If you use reference work, be sure to include proper references. On tests, students are required to keep notes and books closed except as instructed. **Your professor will supply all the paper needed for the tests.** Any questions during tests should be directed to the professor only. **CELL PHONES AND OTHER WIRELESS OR NETWORKED DEVICES (INCLUDING COMPUTERS) MAY NOT BE USED DURING TESTS except as authorized to permit access to reference materials**, If you do use such devices during a test to access unauthorized material, it will automatically be considered to be a violation of the Lyon College Honor Code.

All graded work in this class is to be pledged in accordance with the Lyon College Honor Code.

“Students seeking reasonable accommodations based on documented learning disabilities must contact the Dean of the Faculty at (870) 307-7332.”

Withdrawal Deadlines

Last day to drop with no record of the course is 01 September 2014.
Last day to drop with a W is 22 October 2014.