

## Tentative Syllabus for Physics 335DS: Fall 2009

Professor: Dr. Stuart Hutton

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To access the Physics Gateway: <http://hutton.lyon.edu>

### 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. There are no make-ups for in-class worksheets. About labs: A 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)=60%**

**Each test is worth 20% of your grade.**

**Homework / in-class problems / participation=20%**

**Laboratory projects =20%**

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.

### Course Description

In this course you will be exposed to the fundamentals of modern physics.

### Course Objectives

As a consequence of this course, you should obtain an enhanced understanding of the fundamentals of 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. For a non-exhaustive list of assessable learning outcomes, refer to the class website.

## 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. **Absences will negatively impact your final grade. Tardiness is considered to be an unexcused absence and will negatively impact your final grade.**

## Attendance

The Lyon College Student handbook states:

1. Students may be administratively dismissed from a class when they have failed to attend that class for the equivalent of three (3) weeks without being excused.
  - a. Students will be warned by the Dean of the Faculty that they are in jeopardy of dismissal from a class after the equivalent of one and two weeks of absences.
  - b. The student must return to the class (or make satisfactory arrangements with his/her faculty member) or the dismissal will take place after the equivalent of a third week of absence.

## 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.

**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 Office of Academic Services at 307-7332.”