

**Tentative Syllabus for Physics 240: Fall 2008**  
**Special Semester: This course runs from August 26 2008 - October 22 2008**  
**Professor: Dr. Stuart Hutton**  
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**Physics Gateway: <http://www.lyon.edu/webdata/users/shutton/index.html>**

**Note Please: Course Time: 8:00 - 8:50 , 9:00 - 9:50 MWF**

**During class periods and during tests:  
cell phones are to be silent and not used.**

#### **Office Hours**

I will schedule several office hour blocks. I will be very close to my office during these times. Otherwise, I will usually be close to my office. 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

**The final course grade may reflect subjective course aspects such as attendance and positive class participation.**

In this course, you will have several grading opportunities, tests, homework and in-class problems. 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.**

**Tests (3 tests and 1 [comprehensive] final exam)=80%**

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

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

**Note: Physics Lab (Phy241) is a separate course and as such the grade in Phy241 has no impact upon the grade in Phy240.**

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**

Principles of Newtonian mechanics, sound propagation, heat transfer, and thermodynamics employing differential and integral calculus. Prerequisite: MTH 210 or permission of instructor.

## 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, using calculus where necessary and appropriate.

## Course Prerequisites

You are expected to be proficient with algebra and trigonometry. It is strongly recommended that your life will be made easier if you review trigonometry. In addition, physics 240 students are expected to be proficient with integration and differentiation of elementary functions.

## Text

The textbook in this course is:

### Physics 240:

Principles of Physics: A Calculus-Based Text, 3<sup>rd</sup> Edition  
By Raymond A. Serway and John W. Jewett, Jr.

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 870-307-7332**