Syllabus
Physics 211
Summer 2012

This is a calculus-based introductory course on classical mechanics and thermal physics, aimed at engineering majors.

Lecture

Monday through Friday, 8:00-9:50, Lewis 101.

Instructor

Dr. Tibor Torma, Department of Physics and Astronomy,
Lewis 208, 915-5627, kakukk@phy.olemiss.edu

Office Hours

After each class or by appointment

Textbook

Serway-Jewett: *Physics for scientists and engineers*, 8th ed.,
Chapters 1-22.

Prerequisite: Good mathematical skills in (i) setting up and solving word problems, (ii) algebraic manipulations of equations with letters used instead of numbers. A general understanding of vectors and of the meaning of derivatives and integrals. A basic understanding of high-school physics.

Lectures: Students will be expected to read the text and work the excercises. The lecture will give an overview of the concepts and the main reasoning involved but does not cover all the details found in the textbook. Failing to read the material will make it very hard to follow the explanations. Each lecture covers one and a half paragraphs in the textbook.

Quizzes: In the first 7 minutes of each lecture quiz will be given containing seven one-minute questions. At 8:07 each morning a buzzer will sound, and no quiz will be accepted after the buzz. Each question will need a one-line (or shorter) answer; any second line will be ignored as if it was not there. Ech question will contain one end-of-chapter 'Definition', one 'Objective Question', one Conceptual Question', one 'Concept and Principle', and one question that checks whether the student has read the reading assignment carefully.

Homework: Homework will be assigned every class, five questions, and one problem per each subsection. Only a selection of problems will be graded each time.

Tutoring : The Physics Learning center provides (free) tutoring help for students. The schedule is affixed to the door.

Laboratory: All students **must** take the laboratory (**Phys 221**) as a separate course. The lab is **run independently** by the instructor(s) assigned to the lab section, and the lab instructor will not be the same as the course instructor. You'll receive a separate syllabus for the lab.

Exams: Two tests are given during the semester, during class time, on **June 6 (Wednesday)** and **June 15 (Friday)**, during class time. One comprehensive final exam is given on **June 26 (Tuesday), 8:00 - 9:50**. *The instructor does not have the right to allow an early test*. These tests are open book (but no handwritten notes). Both problems and questions are assigned on the tests, all from the textbook.

Absences: Participation is in general mandatory. If you miss a lecture you'll find it hard to keep up. Missed exams, homework or quizzes will be excused up to one-third of the total in each category when suitable documentation (doctor s note, for example) is provided. No makeups are given but the missed grade is replaced by your average in the same category. In truly exceptional cases other accommodation will be considered.

Academic dishonesty or misconduct will be handled according to the usual University policy. Be advised against handing in identical homework solutions. Even though discussing homework solutions is encouraged, each problem is to be solved by everybody individually. *Correct results with incorrect intermediate steps are the usual signs of copying from others*.

Students with disabilities: All reasonable measures will be taken to accommodate any special needs. Inform the instructor in advance of any such need during lecture, discussion, laboratory or tests. Affected students are responsible for requesting special accomoodition in time.

Grading: The grades are determined by the weighted average as follows:

Homework	20%
Quizzes	20%
Two tests	20% each
Final test	20%