PHYS 2114 SYLLABUS Summer, 2002

Location/Time: M-Th 12:10-1:10pm; PS-110
Course Website: (see below) Text: Serway and Beichner, Physics for Scientists and Engineers, 5th ed.
Instructor: Prof. R. J. Hauenstein Prerequisites: PHYS 2014 or 2314
Contact: PS-217 (x5812) E-mail: rjh@okstate.edu Other Materials: PHYS 2114 Lab Manual

Overview: PHYS 2114 is the second of a two-semester course sequence in calculus-based introductory physics. This sequence introduces the student to basic physical phenomena and problem solving through a combination of lecture, recitation, and laboratory coursework. Topics for PHYS 2114 include: Electricity, Magnetism; dc and ac Circuit Theory; Electromagnetic Waves and Optical Phenomena; and Special Relativity.

Course Format:
• Lectures 4 lectures per week (M-Th). Attendance required. Class time will be broken into “mini-lectures” interspersed with in-class “interactive problems.”
• Recitations 1 recitation per week (Fridays). Attendance required.
• Labs 2 labs per week. Note that there are two lab sections (#001 and #002). Attendance required.
  SEC. #001 meets MON & WED;
  SEC. #002 meets TUE & THU. (All labs at 1:20--3:30pm; go to PS-056 1st week.)

How Course Grade will be determined:

<table>
<thead>
<tr>
<th>Contributions to Course Grade</th>
<th>Grading Scale</th>
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<tbody>
<tr>
<td>Exams (3 @ 10% each)</td>
<td>A 87% to 100%</td>
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<tr>
<td>Laboratory</td>
<td>B 75% to 87%</td>
</tr>
<tr>
<td>Homework</td>
<td>C 62% to 75%</td>
</tr>
<tr>
<td>Reading quizzes (drop lowest 4)</td>
<td>D 50% to 62%</td>
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<tr>
<td>Final Exam</td>
<td>F 50% or below</td>
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Assignments:
• Reading To be assigned daily (via course website). To be read in advance of each following lecture. More lecture time then can be devoted to showing how to solve actual physics problems and less on repeating derivations, discussions, etc., as given in the textbook. (But, this can work only if the student has first prepared through already having read and thought about the new material ahead of time!)
• Homework To be assigned weekly (via course website). Normally, assigned Mondays, and due the following Monday (at beginning of class). Note that I will assign only problems with answers at the back of the book, but, will modify each problem and you are to hand in for grading only the modified problem. (This way, you can self-check your work on every problem by working the book’s version for yourself and comparing your answer to the book’s answer.)

NOTES: All homework assignments must adhere to the following: (i) use blue pen; (ii) staple problems in ascending order; (iii) put Name and Section (001 or 002) atop first page; (iv) circle all answers; (v) indicate your reasoning clearly through diagrams, verbal annotations, etc. Finally, late, illegible, sloppy, or disorganized homework WILL NOT BE ACCEPTED.

Exams and Quizzes: Three 50-minute exams will be given. There will be a 100-minute comprehensive final exam given on the last day (08/02/02). The aforementioned exams will be closed-book/closed-notes (unless otherwise indicated), and, largely in a multiple-choice format. (See course website for exam dates.) Also, unannounced Reading Quizzes will be given, on average twice per week. These will be very short, simple, qualitative quizzes, given during the initial 5 min. of class, to test whether you have prepared for class that day by reading the assigned material. The lowest four reading quizzes will be dropped.
For each class:
• Bring pen or pencil, paper, calculator, textbook.
• Read assigned material ahead of time. (A reading quiz may be given that day.)
• Come to class on time. (Reading quizzes missed due to lateness will earn a grade of “0”.)

Course Website: A course website will be maintained at
http://www.physics.okstate.edu/hauenst/class/ph2114/
and should be checked daily for updates. This website will serve as the primary mechanism for posting assignments, exam dates, and important announcements of relevance to PHYS 2114.

Course Policies:
• Make-Ups and attendance With a timely and acceptable written excuse, a maximum of one of the 3 exams may be dropped due to excused absence. Unexcused missed exams will earn a grade of “0”. No “make-up” work will be given. Excuses normally will be accepted for personal illness or serious family emergencies only and must be presented in writing to Prof. Hauenstein.
• Cheating OSU policy on Academic Dishonesty and Academic Misconduct will be followed strictly.
• Withdrawals OSU policies will be followed strictly. Students are responsible for knowing all applicable dates and deadlines.

Extra Help: Come to either myself or the TA if you need extra help for the lecture/recitation portion of the course, and go to Mr. Thacker (x40303), the lab coordinator, for extra help on the labs. Office hours for myself, the TA, and Mr. Thacker will be maintained on the course website. See us during our office hours; or, if you are completely unable to meet at those times, contact us and arrange for a special appointment.