Physics 202: Electricity and Magnetism, Optics, and Modern Physics (Fall 2008)

SECTION 001
Instructor: Dr. Z. D. Greenwood  Office: 113 Engineering Annex  Phone: 257-2302
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Office hours: MTWF 2:00-4 pm Th 3-5 pm

Homework will be assigned from the "Exercises & Problems" listed at the end of the chapters.

Your progress in this course is available on Blackboard:  http://blackboard.latech.edu/

Other Class Materials: “Half-width” Scantron® sheets, Calculator, Engineering paper for homework problems, 3x5 cards for class quizzes & daily comments.

Problem Session: Thursday, 4-5 pm (most weeks)

Course Description:
In this course we first will cover the fundamental concepts of electricity and magnetism, leading up to Maxwell's equations. Next, we will discuss electromagnetic radiation in general and light in particular, studying first general wave properties and how these properties are exhibited in geometric and physical optics. A good understanding of algebra, trigonometry, and basic calculus will be assumed.

Attendance:
Attendance in class is absolutely necessary. Absence from class does not relieve a student of his or her responsibility for the material covered in class.

Homework:
Homework will be assigned and performed on WileyPlus  (http://edugen.wiley.com/edugen/class/cls70507/). You are encouraged to work together on the homework assignments. Homework solutions will be discussed in class.

Tests:
There will be four 75-minute multiple-choice tests during the quarter. The tests will concentrate on the material presented in class and covered in the homework assignments. The date of exams will be announced in class. A tentative schedule is included below, but it is subject to change.

(Very) Tentative Exam Schedule:
Test 1: Sep. 22, 2005  Chapters 21 - 23
Test 2: Oct. 11, 2005  Chapters 24 - 27
Test 3: Oct. 27, 2005  Chapters 28 - 30
Test 4: Nov. 12, 2005  Chapters 32 - 35

Grading Policy:
Course grade will be assigned based on performance on exams (3 out of 4) given in class, reading quizzes, and homework. Note: It’s possible to score greater than 100 points!

<table>
<thead>
<tr>
<th>Grade Component</th>
<th>Percentage of Final Grade</th>
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<tbody>
<tr>
<td>Exams</td>
<td>30 points each (90 points total)</td>
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<tr>
<td>Homework</td>
<td>10 points</td>
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<tr>
<td>Reading Quizzes</td>
<td>5 points</td>
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Grading Scale: 88-100 = A, 74-87 = B, 61-73 = C, 50-60 = D, < 50 = F