PHYSICS 140 SYLLABUS
How Things Work
Winter 2006 Semester

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office hours: MR 09:00-10:00 or by appointment

Objectives: Without complicated calculations, this course conveys an appreciation for physics by finding its principles in everyday experiences.


Material Outline:
Kinematics and Dynamics of Objects; Thermodynamics, Electricity and Magnetism, Mechanical and Electromagnetic Waves; Light and Optics, Elements of Modern Physics. (Some flexibility in the outline is assumed.)

Attendance: Attendance will be taken during class session via E-instruction CPS clickers.

Homework: There will be assignments for which the solutions have to be turned in for a grade. The solutions should be neatly prepared in Microsoft Word (one problem per page). Comments describing the physical situation in the problem and justification of the steps should be included along with the mathematical solution. Homework will be assigned each Monday. Homework is due in one week and must be submitted via Blackboard by midnight. (Late submission will not be accepted.)

Quizzes: During each lecture, there will be a short quiz concerning topics discussed during the previous meeting.

Grade Composition:

<table>
<thead>
<tr>
<th>Grade Composition</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>attendance:</td>
<td>60 %</td>
</tr>
<tr>
<td>homework:</td>
<td>20 %</td>
</tr>
<tr>
<td>quizzes:</td>
<td>20 %</td>
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<tr>
<td>(premium for involvement:)</td>
<td>10 %</td>
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Grading Scale:
A (-): 90% or higher
B (+): 80-90%
C (+): 70-80%
D (+): 60-70%