Classical Mechanics
Physics 215
Department of Physics at Lehigh University
Spring 2013

Instructor: Gary G. DeLeo
Office: 412 Lewis Lab, 83413 (direct), 83931 (Physics office), lgd0 (e-mail)

General Course Requirements:
Requirements include: (i) reading assigned materials prior to class, (ii) attending all lectures, (iii) completing all homework problems on time, (iv) seeing the instructor if you are having trouble. Students are permitted to work together on homework assignments.

Grading:
Your numerical grade will be determined as follows:

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<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Hour Exam 1</td>
<td>20%</td>
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<tr>
<td>Hour Exam 2</td>
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<tr>
<td>Final Examination</td>
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<td>Homework</td>
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<td>Attendance</td>
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<td><strong>TOTAL</strong></td>
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Primary Topics:
- Newton’s Laws of Motion (Chap. 1)
- Projectiles and Charged Particles (Chap. 2)
- Momentum and Angular Momentum (Chap. 3)
- Energy (Chap. 4)
- Oscillations (Chap. 5)
- Calculus of Variations (Chap. 6)
- Lagrange’s Equations (Chap. 7)
- Two-Body Central-Force Problems (Chaps. 8)
- Mechanics in Noninertial Frames (Chap. 9)
- Rotational Motion of Rigid Bodies (Chap. 10)
- Coupled Oscillators and Normal Modes (Chap. 11)

As Time Permits:
- Nonlinear Mechanics and Chaos (Chap. 12)
- Collision Theory (Chap. 14)
- Hamiltonian Mechanics (Chap. 13)
- Special Relativity (Chap. 15)

Accommodations for Students with Disabilities: If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, University Center C212 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.