Instructor: Dr. David T. Marx  
Office: Moulton Hall, 312F  
Office Hours: M-F 11 AM – Noon others by appointment or drop in  
Phone: 438 – 5382  
e-mail: marx@phy.ilstu.edu  
Class Website: www.phy/ilstu.edu/~marx/ph355/index.htm  
*I expect students to have a copy of the text and actually study the assigned chapter sections in detail.*  
Attendance: Attendance is critical to your success in this course. Please arrive a few minutes before the start of class.  
Homework: This is an advanced course in physics. As such, students are expected to have achieved a level of problem solving sophistication to where solutions are presented *elegantly*. Problem solutions are more than a series of algebraic steps required to achieve a result; they include sufficient words and diagrams to make the equations clear to the reader. Where pictorial work is required, solutions should contain neat, scaled line drawings, not rough sketches. Allow plenty of time for assignments. *Starting homework the day before it’s due is generally a bad idea.*  
It is expected that students will work together on homework assignments; however, the submitted work must be your own work and not simply copied from another student. **If two students submit identical work, both students may receive a zero grade for the entire assignment.**  
Homework problems will be assigned on a regular basis with due dates announced at time of assignment. **No homework will be accepted that is late unless prior arrangement, before the due date, is made with Dr. Marx.**  
Computer Assignments:  
Homework assignments may include problems that involve writing a computer program or simulation. These may be done in Mathematica, FORTRAN, or any other coding format that you desire. For these assignments, write a summary of your approach to the program, include all equations and derivations included in the program, and a discussion of the testing of the program for errors. Students should include their program code and output, including graphs or graphical representations generated for the assignment.  
Exams: There will be two or three exams to be announced.  
Final Exam: The final exam will be on announced as soon as it is determined by the university. The exam will cover all material presented in the course. You may use your class notes. Photocopies may not be included in your notes. Partial credit will be given whenever possible. Cheating will result in a zero grade for the exam.  
Grading:  
<table>
<thead>
<tr>
<th>Scale (subject to change)</th>
<th>Components</th>
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</thead>
<tbody>
<tr>
<td>A 87 to 100 %</td>
<td>Homework 35 %</td>
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<tr>
<td>B 75 to 86 %</td>
<td>Exams 45 %</td>
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<td>C 63 to 74 %</td>
<td>Final Exam 20 %</td>
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<td>D 51 to 62 %</td>
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<td>F &lt; 51 %</td>
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