# Course Schedule

**PHYSICS 100**  
**PHYSICS FOR THE MODERN WORLD**  
**COURSE SCHEDULE***

Fall Semester 2004

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*Please note: Any changes to this schedule will be announced in class and/or posted to Blackboard. Be sure to check your email and our Blackboard site often!! Supplemental handout and reading materials may also be distributed at various times throughout the semester.

<table>
<thead>
<tr>
<th>Session No.</th>
<th>Date</th>
<th>Topic(s)</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mon., Aug. 30</td>
<td>Welcome! Course Introduction; Scientific Method and Systems of Measurement; Building a World View</td>
<td>Chapter 1</td>
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<tr>
<td></td>
<td></td>
<td><em>No labs meet the week of August 30th.</em></td>
<td>Appendix A</td>
</tr>
<tr>
<td>2</td>
<td>Thurs., Sept. 2</td>
<td>Newton’s First Law of Motion</td>
<td>Chapter 2</td>
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<td></td>
<td></td>
<td><strong>Mon., Sept. 6 is Labor Day Holiday - no class.</strong></td>
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<td><em>Labs begin week of Sept. 6</em>. Pre-lab assessments given. Sections 4 &amp; 8 may attend another lab section.*</td>
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<tr>
<td>3</td>
<td>Thurs., Sept. 9</td>
<td>Newton’s First Law of Motion</td>
<td>Chapter 2</td>
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<tr>
<td></td>
<td></td>
<td>Linear Motion: A Conceptual View</td>
<td>Chapter 3</td>
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<tr>
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<td></td>
<td><strong>Experiment 2 performed this week.</strong></td>
<td>Appendix B</td>
</tr>
<tr>
<td>4</td>
<td>Mon., Sept. 13</td>
<td>Linear Motion: A Quantitative View</td>
<td>Chapter 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Experiment 3 performed this week.</strong></td>
<td></td>
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<tr>
<td>5</td>
<td>Thurs., Sept. 16</td>
<td>Linear Motion: A Conceptual &amp; Quantitative View</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>6</td>
<td>Mon., Sept. 20</td>
<td><strong>QUIZ 1</strong></td>
<td>Chapter 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Newton’s Second Law of Motion</td>
<td></td>
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<tr>
<td>7</td>
<td>Thurs., Sept. 23</td>
<td>Newton’s Second Law of Motion</td>
<td>Chapter 4</td>
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<td></td>
<td><strong>Experiment 3 performed this week.</strong></td>
<td>Appendix D</td>
</tr>
<tr>
<td>8</td>
<td>Mon., Sept. 27</td>
<td>Newton’s Third Law of Motion</td>
<td>Chapter 5</td>
</tr>
</tbody>
</table>

* Course Schedule  
Fall 2004 - 1
Experiment 4 performed this week.

9 Thurs., Sept. 30  Momentum      Chapter 6
10 Mon., Oct. 4   EXAM 1

Experiment 5 performed this week.

11 Thurs., Oct. 7  Momentum      Chapter 6

Oct. 11th & 12th is Fall Break - no classes.
No labs meet this week.

12 Thurs., Oct. 14 Energy       Chapter 7
13 Mon., Oct. 18  Energy       Chapter 7

Experiment 6 performed this week.

14 Thurs., Oct. 21 QUIZ 2
Rotational Motion     Chapter 8
15 Mon., Oct. 25  Rotational Motion     Chapter 8

Experiment 7 performed this week.

16 Thurs., Oct. 28 Gravity       Chapter 9
17 Mon., Nov. 1   Projectile and Satellite Motion    Chapter 10

Experiment 8 performed this week.

18 Thurs., Nov. 4  Projectile and Satellite Motion    Chapter 10
19 Mon., Nov. 8   EXAM 2

Experiment 9 performed this week.

*Please read Chapter 11, The Atomic Nature of Matter

20 Thurs., Nov. 11 Solids       Chapter 12
21 Mon., Nov. 15  Solids        Chapter 12
Liquids       Chapter 13

Experiment 10 performed this week.

22 Thurs., Nov. 18 Liquids       Chapter 13
23 Mon., Nov. 22  QUIZ 3        Chapter 13
Liquids       Chapter 13
<table>
<thead>
<tr>
<th>Date</th>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 Mon., Nov. 29</td>
<td>Gases and Plasmas</td>
<td>Chapter 14, Experiment 11 performed this week.</td>
</tr>
<tr>
<td>25 Thurs., Dec. 2</td>
<td>Gases and Plasmas</td>
<td>Chapter 14, Experiment 12 performed this week.</td>
</tr>
<tr>
<td>26 Mon., Dec. 6</td>
<td>EXAM 3</td>
<td>Chapter 14, Dec. 14(^{th}) &amp; 15(^{th}) are designated Study Days.</td>
</tr>
<tr>
<td>27 Thurs., Dec. 9</td>
<td>TBA</td>
<td>Chapter ?, Final Exam*: Thurs., Dec. 16(^{th}) @ 8:30 - 11:00 am for Sections 1 - 4</td>
</tr>
<tr>
<td>28 Mon., Dec. 13</td>
<td>TBA</td>
<td>Mon., Dec. 20(^{th}) @ 11:20 am – 1:50 pm for Sections 5 - 8</td>
</tr>
</tbody>
</table>

*Note: These are firm dates according to the university’s fall 2004 class schedule.
Homework Assignments:

Please include your name, section, row, and seat number in the upper right-hand corner of all assignments you turn in. You should respond to all assigned questions with complete sentences. A simple yes/no or true/false response is not complete without an explanation that thoroughly explains and supports it. **Note that a thorough response is required for each and every question even if it appears that it is not being explicitly implied by the author in the statement of the question itself.** Points will be deducted for incomplete responses. Partial credit will be given in accordance with the correctness of your response. You are encouraged to include pictures and labeled diagrams along with your written responses and numerical solutions. Please do not submit assignments on spiral ring notebook paper. Assignments may be typed or handwritten and must be clearly legible.

Your assignments will include **Review Questions (RQ), Exercises (E), and Problems (P)** which can be found at the end of each chapter in your textbook. In addition, **Supplemental Problems (SP)** will be distributed in class (blue handouts) and collected as part of your regular homework assignments for selected chapters. Your homework assignments for the first six chapters are listed below. Assignments for the remaining chapters will be given during a subsequent class session. Please note that any changes to this list of questions will be announced in class or posted on Blackboard. Further, the collection dates listed are tentative and will be firmed up during class. **A homework assignment will NEVER be collected for a given chapter until we have completed our classroom discussion on it, regardless of the tentative due date shown on this course schedule.**

If you have a question regarding your homework assignments, I encourage you to stop by my office. Never hesitate to ask when you have a question. I will be more than happy to help you. If my office hours do not coincide with your schedule, please give me a call or send me a note via email and we can set up an appointment.

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Assignment</th>
<th>TENTATIVE Due Date</th>
</tr>
</thead>
</table>
| 1       | RQ - 8, 10, 11, 14  
          E - 1, 6, 7     | Review these questions - not to be turned in. |
| 2       | RQ – 7, 14, 17, 19, 21, 24  
          E – 11, 12, 16, 18, 22, 25, 32, 34, 39 | Mon., Sept. 13 |
| 3       | RQ – 6, 9, 12, 17, 20, 24  
          E – 7, 12, 15, 22, 24, 30, 35  
          P – 4, 6, 8, 10  
          Supplemental Problems - handout | Mon., Sept. 20 |
| 4       | RQ – 3, 5, 17, 25, 29, 35  
          E – 9, 10, 25, 28, 32, 39, 44, 48  
          P – 2, 4, 6, 8  
          Supplemental Problems - handout | Mon., Sept. 27 |
| 5       | RQ – 3, 6, 10, 13, 20, 21  
          E – 8, 10, 15, 18, 22, 30, 33, 36  
          P – 1, 2, 6  
          Supplemental Problems - handout | Thurs., Sept. 30 |
| 6       | RQ – 5, 6, 8, 14, 16, 19, 23  
          E – 4, 10, 14, 30, 35, 36, 40, 46  
          P – 2, 6, 8, 10  
          Supplemental Problems – handout | Thurs., Oct. 14 |