# PHYSICS 200 - COURSE SCHEDULE*
## PHYSICS FOR THE NEW MILLENNIUM

**SPRING SEMESTER 2004**

**MCKINLEY 160**

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**MAILBOX: MCKINLEY 102**

*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>
</table>
| 1           | Tues., Jan. 13 | Welcome! Course Introduction’ Vibrations, Waves, and Sound | Chap. 19  
              |               |                                                 | Chap. 20  |
|             |               | *Call for Papers issued for The New Millennium Conference.* |           |
| 2           | Fri., Jan. 16 | Vibrations, Waves, and Sound Hands-on Activities | Chap. 19  
              |               |                                                 | Chap. 20  |
| 3           | Tues., Jan. 20| Vibrations, Waves, and Sound                     | Chap. 19  
              |               |                                                 | Chap. 20  |
| 4           | Fri., Jan. 23 | Electrostatics Hands-on Activities                | Chap. 22  |
| 5           | Tues., Jan. 27| Electrostatics                                    | Chap. 22  |
|             |               | *Conference abstracts are due – electronic submission.* |           |
| 6           | Fri., Jan. 30 | **Quiz 1** Electric Current Hands-on Activities  | Chap. 23  |
| 7           | Tues., Feb. 3 | Electric Current                                  | Chap. 23  |
|             |               | *Anticipated date authors will be notified of abstract acceptance. Publication guidelines will be provided at this time.* |           |
| 8           | Fri., Feb. 6  | Electric Current Hands-on Activities              | Chap. 23  |
| 9           | Tues., Feb. 10| Electric Current Magnetism                        | Chap. 23  
              |               |                                                 | Chap. 24  |
| 10          | Fri., Feb. 13 | Magnetism Electromagnetic Induction Exam 1 Review Hands-on Activities | Chap. 24  
<pre><code>          |               |                                                 | Chap. 25  |
</code></pre>
<p>| 11          | Tues., Feb. 17| <strong>Exam 1</strong>                                        |           |
| 12          | Fri., Feb. 20 | Electromagnetic Induction                          | Chap. 25  |</p>
<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Topic</th>
<th>Chap.</th>
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<tbody>
<tr>
<td>13 Feb.</td>
<td>Tues.</td>
<td>Properties of Light</td>
<td>26</td>
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<td>Hands-on Activities</td>
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<tr>
<td>14 Feb.</td>
<td>Fri.</td>
<td>Color</td>
<td>27</td>
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<td>15 Feb.</td>
<td>Tues.</td>
<td>Reflection and Refraction</td>
<td>28</td>
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<td>Hands-on Activities</td>
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<td>Fri.</td>
<td>Quiz 2</td>
<td>28</td>
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<td></td>
<td>Reflection and Refraction</td>
<td>28</td>
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<td>Hands-on Activities</td>
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<tr>
<td>17 Mar.</td>
<td>Tues.</td>
<td>Light Waves</td>
<td>29</td>
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<td>Hands-on Activities</td>
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<tr>
<td>18 Mar.</td>
<td>Fri.</td>
<td>Light Waves</td>
<td>29</td>
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<td></td>
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<td>Light Emission</td>
<td>30</td>
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<td>Hands-on Activities</td>
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<tr>
<td>19 Mar.</td>
<td>Tues.</td>
<td>Light Emission</td>
<td>30</td>
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<td></td>
<td></td>
<td>Light Quanta</td>
<td>31</td>
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<tr>
<td>20 Mar.</td>
<td>Fri.</td>
<td>Light Quanta</td>
<td>31</td>
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<td>Hands-on Activities</td>
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<td>Spring Break is March 8th – 12th!!</td>
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<tr>
<td>21 Mar.</td>
<td>Tues.</td>
<td>Light Quanta</td>
<td>31</td>
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<td>Hands-on Activities</td>
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<tr>
<td>22 Apr.</td>
<td>Fri.</td>
<td>Hands-on Activities</td>
<td>TBA</td>
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<td>Exam 2 review</td>
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<td>Peer reviews are due.</td>
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<td>Author’s notified of paper acceptance for publication in the conference proceedings.</td>
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<td>23 Apr.</td>
<td>Tues.</td>
<td>Exam 2</td>
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<tr>
<td>24 Apr.</td>
<td>Fri.</td>
<td>Preparation for New Millennium</td>
<td>TBA</td>
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<td>Conference</td>
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<td>Hands-on Activities</td>
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<td>25 Apr.</td>
<td>Tues.</td>
<td>The Atom and the Quantum</td>
<td>32</td>
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<td>Hands-on Activities</td>
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<tr>
<td>26 Apr.</td>
<td>Fri.</td>
<td>The Atom and the Quantum</td>
<td>32</td>
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<td>Hands-on Activities</td>
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<td>Audio-visual requests due.</td>
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<td>Final “camera ready” copies of papers due.</td>
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<td>27 Apr.</td>
<td>Tues.</td>
<td>Quiz 3</td>
<td>TBA</td>
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<td>TBA</td>
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<td>28 Apr.</td>
<td>Fri.</td>
<td>The New Millennium Conference</td>
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<td>(Note: class will meet from 12:45 pm – 5:00 pm)</td>
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<td>Wrap-up; Course Evaluations</td>
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## Homework Assignments:

Please 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. 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 (**green handouts**) and collected as part of your regular homework assignments for selected chapters.

Your assignments for the Waves & Sound and Electricity portions of the course are listed below. Additional assignment sheets will be given during class as we proceed to the topics of Light and Modern Physics. Please note that any changes to this list of questions will be announced in class. 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 want to 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>
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</table>
| 19      | RQ – 6, 12, 16, 23, 29  
E – 4, 12, 17, 21, 22, 35  
P – 3, 5, 7 | Fri., Jan. 23 |
| 20      | RQ – 8, 10, 16, 22, 26  
E – 7, 12, 30, 34, 36, 39  
P – 2, 4, 5  
SP – Handout (combined for Chapters 19 & 20) | Fri., Jan. 23 |
| 22      | RQ – 10, 22, 24, 30, 32, 35  
E – 5, 8, 14, 20, 27, 30, 38, 41  
P – 3, 6, 9, 10  
SP - Handout | Fri., Jan. 30 |
| 23      | RQ – 5, 8, 12, 16, 27, 34, 36  
E – 10, 24, 26, 35, 40, 42, 45, 49, 50  
P – 5, 6, 9  
SP - Handout | Fri., Feb. 13 |