

PHYSICS 200 - COURSE SCHEDULE*

PHYSICS FOR THE NEW MILLENNIUM

SPRING SEMESTER 2007

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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.

| SESSION NO. | DATE | TOPIC(S) | REFERENCE |
|--|----------------|---|----------------------|
| 1 | Tues., Jan. 16 | Welcome! Course Introduction` Vibrations, Waves, and Sound | Chap. 19 Chap. 20 |
| <i>Call for Papers issued for The 7th Annual New Millennium Conference.</i> | | | |
| 2 | Fri., Jan. 19 | Vibrations, Waves, and Sound Hands-on Activities | Chap. 19 Chap. 20 |
| 3 | Tues., Jan. 23 | Vibrations, Waves, and Sound | Chap. 19 Chap. 20 |
| 4 | Fri., Jan. 26 | Electrostatics Hands-on Activities | Chap. 22 |
| 5 | Tues., Jan. 30 | Electrostatics | Chap. 22 |
| <i>Conference abstracts are due – electronic submission.</i> | | | |
| 6 | Fri., Feb. 2 | Quiz 1 Electric Current Hands-on Activities | Chap. 23 |
| 7 | Tues., Feb. 6 | Electric Current | Chap. 23 |
| <i>Anticipated date authors will be notified of abstract acceptance. Publication guidelines will be provided at this time.</i> | | | |
| 8 | Fri., Feb. 9 | Electric Current Hands-on Activities | Chap. 23 |
| 9 | Tues., Feb. 13 | Electric Current | Chap. 23 |

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| | | Magnetism | Chap. 24 |
| 10 | Fri., Feb. 16 | Magnetism Electromagnetic Induction Hands-on Activities | Chap. 24 Chap. 25 |
| 11 | Tues., Feb. 20 | Exam 1 | |
| 12 | Fri., Feb. 23 | Electromagnetic Induction Properties of Light Hands-on Activities | Chap. 25 Chap. 26 |
| 13 | Tues., Feb. 27 | Color | Chap. 27 |
| 14 | Fri., Mar. 2 | Color Reflection and Refraction Hands-on Activities | Chap. 27 Chap. 28 |
| <i>First draft of formatted conference papers is due.</i> | | | |
| 15 | Tues., Mar. 6 | Reflection and Refraction | Chap. 28 |
| 16 | Fri., Mar. 9 | Quiz 2 Reflection and Refraction Hands-on Activities | Chap. 28 |
| <i>Spring Break is March 12th – 16th !!</i> | | | |
| 17 | Tues., Mar. 20 | Light Waves Hands-on Activities | Chap. 29 |
| 18 | Fri., Mar. 23 | Light Waves Light Emission Hands-on Activities | Chap. 29 Chap. 30 |
| 19 | Tues., Mar. 27 | Light Emission Light Quanta | Chap. 30 Chap. 31 |
| <i>Final draft of papers is due (electronic submission and 2 hard copies). Peer Review Guidelines distributed.</i> | | | |
| 20 | Fri., Mar. 30 | Light Quanta Hands-on Activities | Chap. 31 |
| 21 | Tues., Apr. 3 | Light Quanta | Chap. 31 |
| <i>Peer reviews are due. Author's notified of paper acceptance for publication in the conference proceedings.</i> | | | |
| 22 | Fri., Apr. 6 | Hands-on Activities Exam 2 review | TBA |
| 23 | Tues., Apr. 10 | Exam 2 | |
| 24 | Fri., Apr. 13 | Preparation for New Millennium | Conference TBA |

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| | | Hands-on Activities | |
| 25 | Tues., Apr. 17 | The Atom and the Quantum | Chap. 32 |
| 26 | Fri., Apr. 20 | The Atom and the Quantum Hands-on Activities | Chap. 32 |
| | | <i>Audio-visual requests due. Final "camera ready" copies of papers due.</i> | |
| 27 | Tues., Apr. 24 | Quiz 3 TBA | TBA |
| 28 | Fri., Apr. 27 | The 7th Annual New Millennium Conference (Note: class will meet from 12:45 pm – 5: 00 pm) Wrap-up; Course Evaluations | |

HOMWORK 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. Numerical responses must first include a description of the physical relationships or equations being used (in symbol form). 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), One-Step Calculations (OSC), 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 posted in the "Assignment" section of our class Blackboard site.

Your assignments for the chapters on waves & sound, electrostatics, electricity, and magnetism are given on the following page. Additional assignment sheets will be posted on Blackboard 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 and/or 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 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.

| CHAPTER | ASSIGNMENT | TENTATIVE DUE DATE |
|---------|--|--------------------|
| 19 | RQ – 2, 4, 10, 12, 14, 19, 20, 27 E – 6, 12, 18, 24, 31, 34, 42, 46 P – 4, 6, 8 | Fri., Jan. 26 |
| 20 | RQ – 2, 7, 9, 19, 22, 26 E – 6, 16, 18, 24, 26, 36, 43, 48 P – 2, 4, 5, 10 SP – Handout (combined for Chapters 19 & 20) | Fri., Jan. 26 |
| 22 | RQ – 3, 10, 13, 21, 22, 27, 31 E – 6, 11, 16, 18, 26, 34, 38, 44, 51 P – 2, 8, 9, 10 SP – Handout | Fri., Feb. 2 |
| 23 | RQ – 5, 8, 11, 16, 24, 27, 34, 37 OSC - 6 E – 7, 25, 28, 34, 38, 40, 46, 54, 55, 60 P – 4, 6, 8, 10 SP – Handout | Fri., Feb. 16 |
| 24 | RQ – 2, 11, 12, 15, 17, 19, 23 E – 1, 8, 20, 24, 32, 36, 38, 47, 48 SP – Handout | Tues., Feb. 20 |