

# Physics 212 Syllabus

1/18/2005

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**Offices:** 2018 NCPA MWF 8:00 – 9:45, 2:00-3:00 or by calling 915-5888 for an appointment.

Lewis Hall – Physics TT - 7:15 – 7:55; after class and by appointment

I also am glad to answer questions by e-mail.

**Text:** *Fundamentals of Physics, 7<sup>th</sup> Edition*, Halliday, Resnick and Walker

**Grading:**

|          |                    |
|----------|--------------------|
| 2        | Tests              |
| 1        | Homework average   |
| 1        | Quiz average (8/9) |
| <u>1</u> | <u>Final</u>       |
| 5        |                    |

|          |   |
|----------|---|
| 100-87.5 | A |
| 87.5-75  | B |
| 75-62.5  | C |
| 62.5-50  | D |
| <50      | F |

**Academic Regulations:**


Regular attendance is expected. Every class is important. Please do not come late. Homework is to be turned in at the beginning of class. You should try to do your homework with as little help as possible. You will remember things you learn

and figured out on your own much better than things you are told. Tutoring is available in Lewis Hall

**Web site for correct time:**

**<http://nist.time.gov/timezone.cgi?Central/d/-6>**

**Physics -** An attempt to understand the universe

- 1 Observe the universe
  - 2 Form mathematical model
  - 3 Apply models to problems
  - 4 Compare to observation
- 

**Physics 212 Goals:**

1. Learn electricity and magnetism and optics
2. Apply mechanics to E&M problems
3. Develop problem solving skills
4. Hone critical thinking
5. Satisfy your curiosity

**Homework graded on effort, turn in on time!**

**The syllabus below is subject to change to accommodate instruction and/or student needs.**

| Date             | Chapter   | Homework Due           |
|------------------|---|------------------------|
| Jan 18           | Ch 21 Electric charge                             | Review Force Chapters  |
| Jan 20           | Ch 22 Electric fields                             | Review Energy Chapters |
| Jan 25           | Ch 23 Gauss' Law                                  | Ch 21 HW               |
| Jan 27           | Ch 24 Electrical potential                        | Ch 22 HW               |
| Feb 1            | Ch 24 Electric potential, Ch 25 Capacitance       | <b>Quiz 1</b>          |
| Feb 3            | Ch 25 Capacitance                                 | Ch 23 HW               |
| Feb 8            | Ch 26 Current and Resistance                      | <b>Quiz 2</b>          |
| Feb 10           | Ch 26 Current and Resistance, Ch 27 Circuits      | Ch 24 HW               |
| Feb 15           | Ch 27 Circuits                                    | <b>Quiz 3</b>          |
| Feb 17           | Ch 28 Magnetic fields                             | Ch 25 HW               |
| Feb 22           | Ch 28 Magnetic fields                             | Ch 26 HW               |
| Feb 24           | Ch 29 Magnetic fields due to currents             | <b>Quiz 4</b>          |
| <b>Feb 28</b>    | <b>Deadline for course withdrawal</b>             | Ch 27 HW               |
| Mar 1            | Ch 29 Magnetic fields due to currents             |                        |
| <b>Mar 3</b>     | <b>Mid term test: Chapter 21 - 27</b>             | <b>TEST 1</b>          |
| Mar 8            | Ch 30 Inductance and induction                    | Ch 28 HW               |
| Mar 10           | Ch 30 Inductance and induction                    | Ch 29 HW               |
| <b>Mar 14-18</b> | <b>Spring break</b>                               |                        |
| Mar 22           | Ch 31 Electromagnetic Oscillations and AC Current | Ch 30 HW               |
| Mar 24           | Ch 31 Electromagnetic Oscillations and AC Current | <b>Quiz 6</b>          |
| Mar 29           | Ch 32 Maxwell's equations, Magnetism              | Ch 31 HW               |
| Mar 31           | Ch 32 Maxwell's equations, Magnetism              | <b>Quiz 7</b>          |
| Apr 5            | Ch 33 Electromagnetic waves                       | Ch 32 HW               |
| Apr 7            | Ch 33 Electromagnetic waves                       | <b>Quiz 8</b>          |
| Apr 12           | Ch 34 Images                                      | Ch 33 HW               |
| Apr 14           | Ch 34 Images                                      | <b>Quiz 9</b>          |
| Apr 19           | Ch 35 Interference                                |                        |
| <b>Apr 21</b>    | <b>Test 2: Chapter 21- 33</b>                     | <b>TEST 2</b>          |
| Apr 26           | Ch 35 Interference                                | Ch 34 HW               |
| Apr 28           | Ch 36 Diffraction                                 | Ch 35 HW               |
| May 3            | Ch 36 Diffraction                                 | CH 36 HW               |
| May 5            | Summary, Optics and Waves, Review                 |                        |
| Final Exam       |   |                        |