# Physics 213


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| Professor: | Dr. Cecille Labuda | Phone: | 1 (662) 915-3945 |
| Office: | 1031 NCPA / 209 Lewis | E-mail: | cpembert@olemiss.edu |
| Office Hours: | MW 11:00 am – 12:00 pm NCPA<br>T 1:00 – 2:45 pm 209 Lewis<br>By appointment at NCPA except Th | Time/Location: | MWF 8:00 am Lewis 101 |


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**Text:**

Giancoli, Physics: Principles with Applications with MasteringPhysics, 6th edition, Pearson, 2005. ISBN: 9780321569837.

**Description:**
This is the first semester of a two-semester sequence in an introductory level general physics course. Topics to be covered include kinematics, mechanics and waves.

**Prerequisites/Corequistes**
Students enrolled in Physics 213 must be concurrently enrolled in Physics 223 or must have already received a passing grade in Physics 223. College algebra is a prerequisite for this course.

**Course Objectives:**

- Develop and improve analytical reasoning and problem solving skills.
- Learn and apply the basic concepts of physics.

**Grading Scale: Total points – 1000.**

- A: 900 – 1000
- B: 800 – 899
- C: 700 – 799
- D: 550 – 699
- F: < 550

**Evaluation:**
*Tests (540 points total)*

- 3 closed-book tests; 180 points each.

*Homework (100 points total)*

- Weekly homework will be assigned online on Mastering Physics: http://www.masteringphysics.com. The access code for Mastering Physics is part of the Student Access Kit included with new textbooks with the ISBN listed above. Access codes ca n also be separately purchased from the Mastering Physics website.

- No late homework will be accepted. Check the due date and time posted for each homework set on the Mastering physics website.
- There will be approximately 10 homework sets.

*Quizzes (110 points total)*

- There will approximately 11 quizzes; some will be online quizzes and some will be in-class quizzes.

*Final exam (250 points total)*

- The final exam will be comprehensive and closed-book.

TOTAL POINTS: 1000

**Resources:**

- Homework discussion sessions will be held weekly on Tuesdays at 5:00 pm in the Lewis Hall tutoring room. Discussions will be student driven discussions and assisted by the professor (Dr. Labuda). A day and time for these sessions will be fixed.
- Free tutoring is provided by graduate students in the Tutoring Room in Lewis Hall.
- Course grades, assignments and materials will be posted on Blackboard. Blackboard grades are NOT an official record of the grades. The posted midterm and final grades are the only office grade records. Any grade errors posted on Blackboard are overridden by the official posted grades.
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**Important Dates**

- August 20 – classes begin
- August 31 – last day to add
- October 1 – deadline for course withdrawals
- November 19 – 23 - Thanksgiving break
- November 30 – last day of class
- December 3 (8:00 am) - final exam

**Policies**

- Students are responsible for all material covered during **all** class periods.
- Test day absences due to illness, unexpected emergency or university sanctioned activities will be excused and a new date set up for taking the test. In the case of an illness, a doctor's note is required. In the case of an unexpected emergency, you must contact me as soon as possible and provide documentation from a parent or guardian with a contact number on your return to the university. For university sanctioned activities, an official notification must be submitted before the activity. For ALL absences on test days, you must contact me by email or telephone within 24 hours subsequent to the absence or **no** tests will be rescheduled under any circumstances. Unexcused absences on test days result in a grade of zero for the test
- Students are encouraged to work together to solve homework problems. However, simply copy homework from another student is NOT allowed.

- Tests are designed to determine whether you have learned and understood the concepts covered in class. Students should not expect that test problems will be identical to the homework problems. Tests will be returned in class typically within 10 days after the test. If tests are not picked up in class, there is no guarantee that the test will be returned.
- Cheating on homework, tests or any assignments, will result in a zero grade for the given assignment. If a second case of cheating is discovered, the student will receive a grade of F for the course.
- Important information pertinent to the course will be communicated to students via his/her university email address. Students are responsible for information communicated via email.

**Tentative Course Schedule:**

About one chapter of the textbook will be covered each week. The following schedule is subject to change.

| Week | Topic | Textbook Sections |
|---|---|---|
| 01: 08/20 – 08/24 | Measurement, Kinematics in 1-D | Ch 1, Ch 2 |
| 02: 08/27 – 08/31 | Kinematics in 1-D, Kinematics in 2-D | Ch 2, Ch 3 |
| 03: 09/03 – 09/07 | Kinematics in 2-D, Dynamics | Ch 3, Ch 4 |
| 04: 09/10 – 09/12 | Dynamics | Ch 4 |
| 05: 09/17 – 09/19 | Dynamics, Circular Motion | Ch 4, Ch 5 |
| **05: 09/21** | **Test 1** | |
| 06: 09/24 – 09/28 | Circular Motion, Energy | Ch 6 |
| 07: 10/01 – 10/05 | Energy, Linear Momentum | Ch 6, Ch 7 |
| 08: 10/08 – 10/12 | Linear Momentum | Ch 7 |
| 09: 10/15 – 10/17 | Rotational Motion | Ch 8 |
| **09: 10/19** | **Test 2** | |
| 10: 10/22 – 10/26 | Static Equilibrium, Fluids | Ch 9, Ch 10 |
| 11: 10/29 – 11/02 | Fluids, Vibrations and Waves | Ch 10, Ch 11 |
| 12: 11/05 – 11/09 | Vibrations and Waves, Sound | Ch 11, Ch 12 |
| 13: 11/12 – 11/14 | Sound | Ch 12 |
| **13: 11/16** | **Test 3** | |
| *13: 11/19 – 11/23* | *THANKSGIVING BREAK* | |
| 14: 11/26 – 11/30 | Sound | Ch 12 |

**Examinations:** Except for the final exam, test dates and topics are subject to change.

Test 1: Chapters 1 - 4 09/19
Test 2: Chapters 5 – 8 10/17
Test 3: Chapters 9 – 12 11/14

Final Exam: Monday December 3, 8:00 am