Physics 213

Updated 08/22/2013

Instructor: Dr. Cecille Labuda
Class time/location: 8:00 am Lewis 101
Office: Lewis 211 / 1031 NCPA

Office Hours: MWF 9:00 – 9:50am, T 2:00 – 2:45pm
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Text

Giancoli, Physics: Principles with Applications with MasteringPhysics, 7th edition, Addison-Wesley, 2013. ISBN: 978-0321625915.

Description

This is the first semester of a two-semester sequence in an introductory level general physics course. Topics to be covered include motion, forces, fluids, simple harmonic motion and waves.

Prerequisites / Corequisites

Students enrolled in Physics 213 must have passed Math 121 and Math 123 or Math 125 or Math 261. Students must also be concurrently enrolled in or have passed Physics 223.

Course Objectives

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

Grading: Weighted average, Plus-Minus

- $92\% \leq \mathbf{A} \leq 100\%$
- $88\% \leq \mathbf{A}- < 92\%$
- $84\% \leq \mathbf{B}+ < 88\%$
- $80\% \leq \mathbf{B} < 84\%$
- $76\% \leq \mathbf{B}- < 80$
- $72\% \leq \mathbf{C}+ < 76\%$
- $68\% \leq \mathbf{C} < 72\%$
- $64\% \leq \mathbf{C}- < 68\%$
- $50\% \leq \mathbf{D} < 64\%$
- $\mathbf{F} < 50\%$

Evaluation

Tests

- 3 closed-book tests: 18% each
- *Total test weighting:* ***54%***

Homework

- Weekly homework will be assigned online on Mastering Physics: Please see the Mastering Physics Instructions document posted on Blackboard for instructions on how to register.
- No late homework will be accepted. The due date and time are posted with the homework.
- *Total homework weighting:* ***10%***

Quizzes

- Online and in-class quizzes will be given. Online quizzes will be on Blackboard.
- *Total quiz weighting:* ***11%***

Final exam

- Comprehensive, closed-book final.
- *Final exam weighting:* ***25%***

Total: 100%

Policies

Attendance

- Students are expected to attend all classes. Although attendance will not regularly be recorded, students are advised that it is difficult to do well in this course with poor attendance.
- On test days, absences due to illness, unexpected emergency or university sanctioned activities may be excused and the test rescheduled. A doctor's note is required for an illness. 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 of the absence or no tests will be rescheduled under any circumstances.

- Homework is intended for you to practice application of the concepts explained in class. Students are encouraged to work together on homework assignments. Copying, is of course, not allowed.
- Tests are designed to determine whether you have learned and understood the concepts covered in class. Generally, test problems will not be identical to the homework problems. Tests will be returned in class typically within 7 days after the test. There is no guarantee that a test will be returned later if it is not picked up at the time the test is handed back in class.
- Cheating on homework, tests or any assignments is, 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. It is the responsibility of every student to know what constitutes cheating and academic dishonesty. Consult the Olemiss M Book for clarification.
- 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.

Resources

- Supplemental instruction (SI)
    - A set of weekly review sessions for students in historically difficult courses.
    - Gives you the chance to get together with students in your class to organize your material, compare notes, discuss important concepts, practice problem-solving, develop study strategies, and improve preparation for exams.
    - For students who want to improve their understanding of course material and improve their grades. Regular attendance of SI makes preparing and reviewing for a test that much easier.
    - Sessions are led by a trained SI leader, a student who has taken and done well in this course.
    - A FREE service. Attend as often as you like. The weekly schedule is on Blackboard. Statistics show that the more you come, the better your grade.
- Course grades will be posted on Blackboard. Grades posted on Blackboard are intended to keep students up to date with their grades. Blackboard grades are NOT an official record of the grades. The posted midterm and final grades are the only office grade records. These grades are based on the Excel grade record that I keep on my computer. Any differences between Blackboard grades and my Excel grades will be overridden by the Excel grades.
- Free tutoring by graduate students is provided in the Tutoring Room in Lewis Hall.

Important Dates

- August 26 – classes begin
- September 9 – last day to add
- October 7 – last day to drop
- November 25 – 29 - Fall break
- December 6 – last day of class
- December 9 (8:00 am) - final exam

Examinations

Test dates and topics are subject to change. The final exam date is fixed and cannot be changed.

Test 1: Chapters 1 - 4	09/18
Test 2: Chapters 19 – 22	10/16
Test 3: Chapters 23 – 26	11/20

Final Exam: Chapters 1 - 12 Monday December 9th, 8:00 am

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: 08/26 – 08/30	Measurement, Kinematics in 1-D	Ch 1, Ch 2
02: 09/02 – 09/06	Kinematics in 1-D, Kinematics in 2-D	Ch 2, Ch 3
03: 09/09 – 09/13	Kinematics in 2-D, Dynamics	Ch 3, Ch 4
04: 09/16 – 09/20	Dynamics	Ch 4
04: 09/18	**Test 1**	**Ch 1-4**
05: 09/23 – 09/27	Dynamics, Circular Motion	Ch 4, Ch 5
06: 09/30 – 10/05	Circular Motion, Energy	Ch 6
07: 10/07 – 10/11	Energy, Linear Momentum	Ch 6, Ch 7
08: 10/14 – 10/18	Linear Momentum	Ch 7
08: 10/16	**Test 2**	**Ch 4-7**
09: 10/21 – 10/25	Rotational Motion	Ch 8
10: 10/28 – 11/01	Static Equilibrium, Fluids	Ch 9, Ch 10
11: 11/11 – 11/15	Fluids, Vibrations and Waves	Ch 10, Ch 11
12: 11/18 – 11/22	Vibrations and Waves, Sound	Ch 11, Ch 12
12: 11/20	**Test 3**	**Ch 7-12**
13: 11/25 – 11/29	*THANKSGIVING BREAK*	
14: 11/21 – 11/25	Sound	Ch 12