

Physics 102 – Course Information Spring, 2011

Instructor:

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Text:

Physics - 6th Edition by Giancoli, Volume 2, Pearson - Prentice Hall.

We will cover Chapters 16-30, skipping sections where appropriate. See HW assignments below.

Class Hours:

Monday	10:00-11:00	(lecture)
Monday	2:00-3:00	(lecture, usually weekly quiz)
Wednesday	10:00-11:00	(lecture)
Friday	10:00-11:00	(lecture)

The Tuesday 5-6 PM hour is reserved for midterms and reviews.

Office Hours: To be determined.

Important dates:

Labs do not start meeting until Monday, January 24th.

The Midterm is Tuesday, March 1st, 5-6 PM in Chem 102

Final Exam is Thursday, May 5th, 12-2 PM location TBD

There will be no special exams to accommodate individual holiday travel.

Grading scheme:

10% Lab Score
25% Midterm
25% Quizzes (drop lowest score or absence)
40% Final

Note that HW is assigned but not graded.
You will need to do the HW to do well on the quizzes.

HW Assignments (next page)

Read Sections 16.1-16.10.

Do Chapter 16, Problems 6, 14, 19, 28, 36, 40, 43, 50, 60, 66, 67.

Read Sections 17.1-17.5 and 17.7-17.9

Do Chapter 17, Problems 1, 4, 7, 16, 23, 36, 44, 47, 48, 62, 63, 72. Read 19.1-19.2, 19.5

Do Chapter 19 Problems 17, 19, 35, 37, 38, 78, and 85

Read Section 19.6.

Do Problems 19.51 and 19.52. In addition, please do the following problem:

You have two capacitors, $C_1 = 3 \text{ uF}$ and $C_2 = 6 \text{ uF}$. Initially, they are disconnected from each other and charged to different voltages $V_1 = 1 \text{ V}$ and $V_2 = 2 \text{ V}$.

(a) If their positive plates are then wired together and their negative plates wired together, what is the final charge on each?

(b) How does the stored potential energy change?

Read sections 20.1--2.7 and 20.11.

Do Chapter 20 Problems: 2, 12, 17, 33, 36, 43, 44, 73, 83, 86, 87

Read Sections 21.1-21.4 and 21.7.

Do Chapter 21 Problems 2, 5, 6, 8, 9, 16, 73, 78, 80.

Read Chapter 23

Do Chapter 23, Problems 9, 17, 22, 30, 32, 35, 39, 41, 43, 53, 54, 58, 59

Read Chapter 25 Section 2

Do Chapter 25, Problem 14

Read Chapter 24.3-24.5, 24.8

Do Chapter 24 Problems 6, 7, 9, 21, 24, 25, 41, 45, 47, 65, 66, 74 r

Read Chapter 26 sections 4-9.

Do Chapter 26 Problems 1, 2, 11, 19, 21, 28, 63, 68

Read 27.1-27.4, 27.6-27.8, 27.10-27.12

Read 28.1-28.2

Do Chapter 27, Problems: 19, 21, 23, 35, 41, 48, 49, 54, 59, 74, 77.

Do Chapter 28, Problems: 1, 52

Read Chapter 30, sections 1-11

Do Chapter 30 Problems 8, 11, 16, 17, 20, 26, 33, 36, 43, 49, 56, 60, 77