

## Phys 102 General Physics II Spring 2010 Sections 06, 07 and 09

**Teaching team:** Hilmi Volkan Demir, office hour: Monday 3:30-4:40  
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**Textbook:** H. D. Young and R. A. Freedman, "University Physics" (Addison Wesley, 12th ed., 2008, vol. 2)

(Please note that we urge you to study the English version of the book.)

**Websites:** <http://www.bilkent.edu.tr/~volkan/teaching.html>

<http://www.fen.bilkent.edu.tr/~phys102/> (Phys 102 Coordination)

This common Phys 102 website will be used to post the syllabus, homework assignments, practice exam (previous year) and current exam solutions.

<http://www.fen.bilkent.edu.tr/~physlab/> (Phys 102 Lab)

### Weekly Calendar (tentative):

Week (Starting with)	Subject	
#1	Feb. 1	Electric Charge and Electric Field (Ch. 21)
#2	Feb. 8	Gauss' Law (Ch. 22)
#3	Feb. 15	Electric Potential (Ch. 23)
#4	Feb. 22	Capacitance and Dielectrics (Ch. 24)
#5	Mar. 1	Current, Resistance, and Electromotive Force (Ch. 25)
#6	Mar. 8	Review <b>Midterm 1 (13 Mar.)</b>
#7	Mar. 15	Direct-Current Circuits (Ch. 26)
#8	Mar. 22	Magnetic Field and Magnetic Forces (Ch. 27)
#9	Mar. 29	Sources of Magnetic Field (Ch. 28)
#10	Apr. 5	<b>Spring Recess</b>
#11	Apr. 12	Electromagnetic Induction (Ch. 29)
#12	Apr. 19	Review <b>Midterm 2 (24 Apr.) (23 Apr. Fri. No Classes)</b>
#13	Apr. 26	Inductance (Ch. 30)
#14	May 3	EM Waves (Ch. 32)
#15	May 10	Review

### Assessment: (all sections will follow the same letter grading bins.)

Midterm 1: 15%	Homework: 10%
Midterm 2: 15%	Quiz : 15%
Final : 25%	Lab : 20%
Recitation attendance: +5%	

### Midterm/final examinations:

- 1) Dates:  
**1<sup>st</sup> Midterm:** March 13<sup>th</sup>, 2009 Saturday 10:00-11:40  
**2<sup>nd</sup> Midterm:** April 23<sup>th</sup>, 2009 Saturday 10:00-11:40  
**Final:** TBA
- 2) Coverage:  
**1<sup>st</sup> midterm** will cover Ch. 21-24  
**2<sup>nd</sup> midterm** will cover Ch. 25-28  
**Final exam** will cover Ch. 21-32 (Ch. 31 is excluded)
- 3) **Assessment:** The instructors are to follow the assessment as shown in the table above. The coordinator will prepare the question/solution and grading key.
- 4) **Make-up exam:** You are eligible to take a make-up exam only if you miss an exam due to a health-related problem **documented with a medical report**. There will be a single make-up exam following the final exam week. Therefore, all subjects will be included and is likely to be challenging. The same make-up exam will be given for all sections. Each instructor will grade his/her own students.

### Quiz / HW:

- 1) Homework assignments will be arranged by the coordinator and posted on the web page (<http://www.fen.bilkent.edu.tr/~phys102/>). There will be 10 homework assignments in total.
- 2) Quizzes will be in the classroom. At least 5 quizzes.
- 3) Quizzes and (written) homework will be evaluated by the grader students.

### Labs:

Lab reports will be evaluated in the same manner as the midterm exams. Samed Yumrukçu will manage the system. Single batch grading will be employed. Lab starting dates and lab groups are announced on the [lab web page](http://www.fen.bilkent.edu.tr/~physlab/). (<http://www.fen.bilkent.edu.tr/~physlab/>).

### Make-up Classes:

- 1) The missed lectures for conferences/travels etc. will be made up by the course instructor, preferably in advance.

**Recitations:** Usually the fourth hour (and sometimes the third hour) of the week is reserved for the recitation hour. Selected problems or past exam questions will be solved.