

SYLLABUS

Textbook: Young & Freedman, UNIVERSITY PHYSICS, 12th edition
(Pearson/Addison Wesley, 2008)

Useful References and Study Aids:

Serway, PHYSICS FOR SCIENTISTS AND ENGINEERS
Halliday and Resnick & Walker, FUNDAMENTALS OF PHYSICS
Wolfson and Pasachoff, PHYSICS
Feynman, LECTURES ON PHYSICS, Vol. 2 (lots of physical insight!)

Many other introductory texts, some shelved in Gordon Library, QC 21-23 and some in Olin 118 are available.

The lectures are intended to supplement, rather than replace, the assigned reading material in the textbook. Getting two or more points of view is very important to the learning process, and helps to reinforce the new material. It is highly recommended that you read through the appropriate sections of the book before coming to lecture. Then, after lecture you should go through the reading again, this time studying the example problems in more detail.

DATE	LECTURE TOPIC	STUDY GUIDE	HOMEWORK
1. M 3/16	Introduction to course Coulomb's law Ch. 21, Sec. 1, 2, 3	1, Objective 1	
2. W 3/18	Electric Fields Ch. 21, Sec. 4, 5	1, Objective 2	1
3. F 3/20	Electric Field Lines and Flux Ch. 21, Sec. 6 Ch. 22, Sec. 1, 2	1, Objective 2	2
4. M 3/23	Gauss's Law Ch. 22, Sec. 3, 4, 5	1, Objective 3	3
5. W 3/25	Electric Potential Ch. 23, Sec. 1	2, Objective 4	4

Fri. 3/27	EXAMINATION NO. 1 (ON STUDY GUIDE 1)		

6. M 3/30	Electric Potential Ch. 23, Sec. 2, 3, 4	2, Objectives 5,6	5
7. W 4/1	Capacitance Ch. 24, Sec. 1, 2	2, Objective 7	6

8. F 4/3 Capacitance and Energy 2, Objective 8 7
Ch. 24, Sec. 3

9. M 4/6 Resistance and Current 3, Objective 9 8
Ch. 25, Sec. 1, 2, 3

Wed. 4/8 EXAMINATION NO. 2 (ON STUDY GUIDE 2)

10. F 4/10 DC Circuits 3, Objective 10 9
Ch. 25, Sec. 4, 5

11. M 4/13 More on Circuits 3, Objective 11 10
Ch. 26, Sec. 1, 2, 3, 4

12. W 4/15 Magnetic Forces 3, Objective 12 11
Ch. 27, Sec. 1, 2, 4, 5, 6

13. F 4/17 The Biot-Savart Law 4, Objective 13 12
Ch. 28, Sec. 2, 3, 4, 5

Wed. 4/22 EXAMINATION NO. 3 (ON STUDY GUIDE 3)

14. F 4/24 Ampere's Law 4, Objective 14 13
Ch. 28, Sec. 6, 7

15. M 4/27 Magnetic Flux 4, Objective 15 14
Ch. 27, Sec. 3

16. W 4/29 Faraday's Law, Lenz's Law 4, Objective 16 15
Ch. 29, Sec. 1, 2, 3

17. F 5/1 More on Faraday's Law 4, 16
Ch. 29, Sec. 6, 8

Mon. 5/4 EXAMINATION NO. 4 (ON STUDY GUIDE 4)

If you need course adaptations or accommodations because of a disability, or if you have medical information to share with us, please make an appointment with Prof. Quimby as soon as possible. If you have not already done so, and you are a student with disabilities, and you believe that may need accommodations in this class, you are encouraged to contact the Disability Services Office (DSO), as soon as possible to ensure that such accommodations are implemented in a timely fashion. The DSO is located in Daniels Hall, (508) 831-5235