

## Physics 20800 CC-CC4 Spring 2010

- Instructor:** Prof. Hernan A. Makse, Steinman Hall ST1M-12,  
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 212-650-6847  
<http://lev.ccny.cuny.edu/~hmakse/TEACHING/teaching.html>
- Class schedule:** Lectures: M W 11-12:15 PM in MR3  
 Recitation: F 11-11:50 AM in NA 1202
- Office hours:** M W 2-3 PM in Levich Institute, Steinman Hall ST1M-12
- Textbook:** *Physics for Scientists and Engineers*, 7<sup>nd</sup> Edition  
 by Serway and Jewett. Vol 1 and 2.
- TA office hours:** Quintana, for office hours contact omarsoso@msn.com
- Drop-in tutoring:** **Marshack MR308. Schedule posted in course web-site.**

### Syllabus:

<u>Date:</u>	<u>Reading assignment</u>	<u>Homework (solutions in web-site)</u>
Jan. 29(F)	CH 16 (1-6) Wave motion	CH 16: 1, 5, 18, 21, 24, 42, 43
Feb. 1(M)	CH 17 (1-4) Sound waves	CH 17: 2,4,8,11,18
Feb 3(W)	CH 18 (1-5) Standing waves	CH 18: 1,4,7,11,16,18,19,31,39
8(M)	CH 35 (1-8) Light and geometric optics	CH 35: 3,9,12,19,21,34,36
10(W)	CH 36 (1-4) Image formation	CH 36: 4,6,13,22,29,30,37
<b>12(F)</b>	<b>College closed</b>	
<b>15(M)</b>	<b>College closed</b>	
17(W)	CH 37 (1-6) Interference	CH 37:1,2,9,15,18,24,27
<b>18(TH)</b>	<b>1<sup>st</sup> Exam CH: 16-18 and CH 35-36 Monday schedule</b>	
22(M)	CH 38 (1-5) Diffraction	CH 38: 1,4,5,22,23,29,30
24(W)	CH 38 Diffraction	
March 1(M)	CH 23 (1-7) Electric field	CH 23: 5,7,14, 7,20,21,36,64
March 3(W)	CH 23 Electric field	CH 24: 1,2,3,5,6,9,10

	8(M)	CH 24 (1-3) Gauss Law	CH 24: 18,19,21,47,50,51
	10(W)	CH 24 Gauss Law	
	15(M)	CH 25 (1-6) Electric potential	CH 25: 1,3,4,11,14,15
	17(W)	<b>2<sup>nd</sup> Exam CH: 37-38 and CH: 23-25</b>	
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	22(M)	CH 26 (1-5) Capacitance	CH 26: 4,8,9,12,13,21,27,28
	24(W)	CH 27 (1-6) Current and Resistance	CH 27: 1,8,12,13,23,30,33
April	7(W)	CH 27 Current and Resistance	
	12(M)	CH 28 (1-4) DC Circuits	CH 28: 5,9,12,16,21,28
	14(W)	CH 29 (1-6) Magnetic field	CH 29: 1,4,14,17,26,30,35
	19(M)	CH 29 Magnetic Field	
	23(F)	<b>3<sup>rd</sup> Exam CH 26-29</b>	
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	26(M)	CH 30 (1-7) Sources of B	CH 30: 1,2,5,17,18,25,33,35
	28(W)	CH 30 Sources of B	
May	3(M)	CH 31 (1-6) Faraday's Law	CH 31: 2,5,11,22,45,49
	5(W)	CH 31 Faraday's Law	
	10(M)	CH 32 (1-6) Inductance	CH 32: 2,4,7,12,13,39,40,44
	12(W)	CH 33 (1-8) AC circuits	CH 33: 2,6,8,13,18
	17(M)	Final review	
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	<b>19-25</b>	<b>Final Exam includes all the material covered in the lectures.</b>	
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### **Important Information for Physics 20800 students.**

**Reading assignment:** This is the text material that will be covered in class each day. You should read the indicated material in the textbook before coming to class.

**Homework:** The homework is optional and it will not be collected in class. However, it is strongly recommended to do all the homework material.

**Lab:** All lab experiments must be done in order to pass the course.

**Exams:** There will be three midterm exams and one final exam (140 min). The final exam will include all the material covered in the semester.

**No make-ups will be given for the midterm exams under any circumstances.**

Two of the lowest grades of the midterms will be dropped and only the best midterm grade will be considered towards the final grade. Make ups will be given for the final examination only in case of fully documented illness. You will need to bring a document with a telephone number in order to verify the veracity of the information presented in the document.

**Grades:** Student performance will be based on the following components:

Best Midterm	40%
Final exam	60%

In the unlikely case that the student misses all the three midterms, then the final grade will consist of the grade in the Final Exam.

**Extra help:** Students can obtain extra help in this course by meeting with me either during my office hours or at other mutually agreeable times. A tutoring lab will be available in MR308. Schedule posted in course web-site.

Homework problems can be also discussed with the Teaching Assistant during his/her office hours.