

# PHYSICS 20400EE FALL 2005 (J4) MW 2:00-3:15 (J417A) F 2:00-2:50

Professor: Mark Shattuck ([shattuck@ccny.cuny.edu](mailto:shattuck@ccny.cuny.edu))  
 Office: Steinman Hall T1M-16 x8161, (Marshak 309A)  
 Office Hours: MW 1:00-2:00  
 Website: <http://gibbs.engr.cuny.cuny.edu/teaching.html>

Textbook: [Cutnell & Johnson - "Physics", 6<sup>th</sup> edition, Volumes 1 and 2.](#)  
 Physics Lab Manual (J419)

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| <ul style="list-style-type: none"> <li>• 15 min. quiz every Monday (first quiz will be Mon. Sep. 12)</li> <li>• Three tests and Final.</li> <li>• All Labs MUST be completed to pass the course!</li> </ul> | 10% Quizzes<br>15% Tests (x3)<br>45% Final (cumulative) |
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Week Beginning	Topic	Reading	Homework
Aug. 29 (WF)	Waves and Sound	16.1-10	16: 5,15,17,24,31,42,78,90,98
Sep. 5 (WF)	Interference	17:1-6	17: 8,20,27,36
Sep. 12	Electric Forces and Fields	18.1-8	18: 1,3,5, 7,11,12,13,16,27,29,44
Sep. 19 (MW <u>F</u> )	Electric Potential	19.1-5	19: 19,23,24,34,39,40,52
Sep. 26	Electric Circuits	20.1-9,11-12	20: 6,10,17,23,33,45,55,60,63,87,100
<b>Fri. Sep. 30</b>	<b>Test 1 (16-19)</b>		
Oct. 3 (MF)	Magnetic Forces and Fields	21.1-8	21: 2,17,20,32,33,41,45,54,55,72
Oct. 10 (T <u>F</u> )	Electromagnetic Induction	22	22: 3,25,28,31,38,51,62,69
Oct. 17	AC Circuits	23.1-4	23: 2,6,13,19,22,28,32,42
	Electromagnetic Waves	24.1-3	24: 3,19,46
Oct. 24	Reflection of Light	25	25: 5,9,19,34
	Refraction of Light	26.1,3,5,8	26: 14,28,42,51,104
<b>Fri. Oct. 28</b>	<b>Test 2 (20-23)</b>		
Oct. 31	Interference of Light	27.1-7	27: 3,11,12,19,27,44,50
Nov. 7	Special Relativity	28	28: 5,8,12,23,31,33,34,38,39,40
Nov. 14	Particles and Waves	29	29: 6,8,9,16,24,32,42,43
Nov. 21 ( <u>MW</u> )			
<b>Wed. Nov. 24</b>	<b>Test 3 (24-29)</b>		
Nov. 28	Nature of Atoms	30	30: 4,5,14,18,19,24,31,33,39,50
Dec. 5	Nuclear Physics	31	31: 4,14,18,19,31,33,39,50
Dec. 12 (MW)	Elementary Particles	32	32: 13,20,24,28,44,45
<b>Dec 16-23</b>	<b>FINALS</b>		

M = Guest Lecturer: TBA or Prof. Hernan Makse, T1M-12, x6847, [makse@mailaps.org](mailto:makse@mailaps.org)