

Physics 1B
Winter Quarter 2002
Lecture 2 Syllabus

Lecture:	MTWF 12:00 –12:50PM
	Knudsen 1220B

Instructor:	Charles A. Whitten, Jr.
	Office: Knudsen 5-123B
	Telephone: 310: 825-1691
	Email: whitten@physics.ucla.edu
	Office Hours: R2:00–3:00PM; F3:00–4:00PM

Discussion TA 1):	Jason Brudvik
	Office: Knudsen A-113
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	Email: Brudvik@physics.ucla.edu
	Office Hours R10:00-11:00AM; F11-12Noon

Disc 2A	F 9:00	Royce 156
Disc 2B	F10:00	Royce 156
Disc 2C	F 1:00	Kinsey 247

Textbook:	Douglas C. Giancoli
	Physics for Scientists and Engineers with Modern Physics, 3 rd Edition

Help:	<ul style="list-style-type: none"> • Instructor Office Hours (See Above) • TA Office Hours (See Above) • TA Center, Knudsen A-212, Begins Wednesday, January 9, 2002, Schedule on Door of Knudsen A-212. • Answers to all homework assignments and hour exams will be posted on the course web site and also available in folders at the Powell Library Circulation Desk.
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i.	Same Level as Giancoli
	Resnick, Halliday and Krane, Physics 4 th Edition Volume 1
	Fishbane, Gasiorowicz and Thornton, <i>Physics for Scientists and Engineers</i>
	Roller and Blum, Physics, Volume I, <i>Mechanics, Waves and Thermodynamics</i>
	Serway, <i>Physics for Scientists and Engineers</i>
ii	More Advanced

	Purcell, Electricity and Magnetism, Berkeley Physics Course Vol 2
	Feynman, <i>The Feynman Lectures in Physics, Volumes 1, 2 and 3</i>

Grading:	<ul style="list-style-type: none"> • Homework [Assigned each Monday, Due the Next Monday]
	<ul style="list-style-type: none"> • Hour Exams [Two, end of 4th and 8th Week of Classes]
	<ul style="list-style-type: none"> • Final Exam
	<ul style="list-style-type: none"> • All Exams are Closed-Book, but you will be allowed to use one page (8 x 11) of your notes. You may use a calculator.

Homework	10%
Two Hour Exams	35%
Final Exam	55%

PHYSICS 1B – TENTATIVE CLASS SCHEDULE

Week 1	Oscillations	Chapters 14
Week 2	Wave Motion	Chapters 15
Week 3	Sound	Chapters 16
Week 4	Electric Charge, Electric Field	Chapter 21 1 st Hour Exam
Week 5	Electric Field Continued, Gauss's Law	Chapters 21 and 22
Week 6	Gauss's Law Continued, The Electric Potential	Chapters 22 and 23
Week 7	Electric Potential Continued, Capacitance	Chapter 23 and 24
Week 8	Capacitance Continued, Dielectrics, Currents and Resistance	Chapter 24 and 25 2 nd Hour Exam
Week 9	Currents and Resistance Continued, DC Circuits	Chapters 25 and 26
Week 10	Magnetic Field	Chapters 27