

DEPARTMENT OF PHYSICS
SPRING 2014 TEXTBOOK LIST
January 14, 2014

7A.1-3: ZETTL, A (sect. 1) & DEWEESE, M (sects. 2-3)

REQ {{Custom made package consisting of:
Giancoli *PHYSICS FOR SCIENTISTS & ENGINEERS*, Vol. 1, 4th Ed., 2010, Pearson
 MASTERING PHYSICS, STUDENT ACCESS KIT, Pearson
 U.C. BERKELEY PHYSICS 7A HANDBOOK}}

7B.1-2: SPELIOTOPOULOS, A & BORDEL, C

REQ {{Custom made package consisting of:
Giancoli *PHYSICS FOR SCIENTISTS & ENGINEERS*, Vol. 2, 3rd Custom Ed., Pearson
 MASTERING PHYSICS, STUDENT ACCESS KIT, Pearson
 U.C. BERKELEY PHYSICS 7B HANDBOOK}}

H7B: SIDDIQI, I

REQ Purcell *ELECTRICITY & MAGNETISM*, Vol. 2, 3rd Ed., 2013, Cambridge
REQ Giancoli *PHYSICS FOR SCIENTISTS & ENGINEERS*, Vol. 2, 3rd Custom Ed., Pearson
REC Feynman *FEYNMAN LECTURES, MAINLY MECHANICS, RADIATION & HEAT*,
 Vol. 1, 2nd Ed., 2005, Addison Wesley

7C: LEE, A

REQ Giancoli *PHYSICS FOR SCIENTISTS & ENGINEERS*, Vol.3, 4th Ed., 2010, Pearson
REQ Tipler/
 Llewellyn *MODERN PHYSICS*, 6th Ed., 2012, Freeman Press/VHPS
REQ Webassign WEBASSIGN, Student Access Code Card (College Semester), Webassign
REQ iClickers iClickers
REQ 7C Lab Manual, available at Copy Central on Bancroft

H7C: KASEN, D

REQ Hecht *OPTICS*, 4th ed., 2001, Addison-Wesley
REQ Tipler *MODERN PHYSICS*, 6th Ed., 2012, Freeman Press/VHPS

8A.1-2: DUFFIN, R & MICKELSON, W

REQ {{Essential Univ. Physics (Vol. 1) Wolfson Package consisting of:
 Wolfson *PHYSICS 8A STUDENT LEARNING HANDBOOK*, Pearson
 ESSENTIAL UNIV. PHYSICS (Vol. 1), 2nd Ed., 2012,
 MASTERING PHYSICS STUDENT ACCESS KIT}}

8B.1: WESTPHAL, A

REQ {{Essential Univ. Physics (Vol. 2) Wolfson Package consisting of:
 Wolfson *PHYSICS 8B STUDENT LEARNING HANDBOOK*, Pearson
 ESSENTIAL UNIV. PHYSICS (Vol. 2), 2nd Ed., 2012,
 MASTERING PHYSICS STUDENT ACCESS KIT}}
REQ iClickers iClickers

8B.2: SPELIOTOPOULOS, A

REQ {{Essential Univ. Physics (Vol. 2) Wolfson Package consisting of:
 Wolfson *PHYSICS 8B STUDENT LEARNING HANDBOOK*, Pearson
 ESSENTIAL UNIV. PHYSICS (Vol. 2), 2nd Ed., 2012,
 MASTERING PHYSICS STUDENT ACCESS KIT}}

C10: KOLOMENSKY, Y
REQ Muller *PHYSICS AND TECHNOLOGY FOR FUTURE PRESIDENTS, 2010, Princeton*

C21: BUEHLER, T
REQ Johnston *MEASURED TONES, 3rd, 2009, CRC*
REQ iClickers iClickers

105.1-2: REINSCH, M
REQ Taylor *CLASSICAL MECHANICS, 2005, University Science Books Sausalito*

110A.1-2: BERGGREN, C
REQ Griffiths *INTRODUCTION TO ELECTRODYNAMICS, 4th Ed., 2012, Prentice Hall*

110B: GANOR, O
REQ Griffiths *INTRODUCTION TO ELECTRODYNAMICS, 4th Ed., 2012, Prentice Hall*
REQ Pedrotti *INTRODUCTION TO OPTICS, 3rd Ed., 2006, Benjamin Cummings*
REC Jackson *CLASSICAL ELECTRODYNAMICS, 3rd, Wiley*

111.1: JACOBSEN, R
REQ Horowitz/
Hill *ART OF ELECTRONICS, 2nd Ed., 1989, Cambridge University Press*

111.2: HOLZAPFEL, W, H & LUK, K
No Textbook Required

112.1-2: SADOULET, B & CHARMAN, A
REQ Kittel/
Kroemer *THERMAL PHYSICS, 2nd Ed., 1980, W.H. Freeman*

130: WANG, F
REQ Boyd *NONLINEAR OPTICS (ebook available via Berkeley Library)*
REQ Gerry & Knight *INTRODUCTION TO QUANTUM OPTICS, (ebook avail Berkeley Library)*

137A.1-2: MARKOV, R
REQ Griffiths *INTRODUCTION TO QUANTUM MECHANICS, 2nd Ed., 2005, Prentice Hall*
REC Gasiorowicz *QUANTUM PHYSICS, 3rd edition, Wiley*

137B.1-2: WOHL, C

The primary reference is notes that will be available a pdf files to student in this course

137B.3: HORAVA, P
REQ Bransden/
Joachain *QUANTUM MECHANICS, 2nd Ed., 2000, Prentice Hall*

139: LITTLEJOHN, R
REQ Hartle *GRAVITY: AN INTRODUCTION TO EINSTEIN'S GENERAL
RELATIVITY, 1st Ed., 2002, A-W*

141A: ANALYTIS, J
REQ Kittel *INTRODUCTION TO SOLID STATE PHYSICS, 8th Ed., 2005, Wiley*

141B:	STAMPER-KURN, D	
REC	Kittel	<i>INTRODUCTION TO SOLID STATE PHYSICS</i> , 8th Ed., 2004, Wiley
REC	Aschroft	<i>SOLID STATE PHYSICS</i> , 1 st Ed., 1976, Thompson Brooks Cole
142:	FAJANS, J	
REQ	Bhattachargee	<i>INTRODUCTION TO PLASMA PHYSICS: WITH SPACE AND LABORATORY APPLICATIONS</i> , 2005, Cambridge
C161:	DAVIS, M	
REQ	Ryden	<i>INTRODUCTION TO COSMOLOGY</i> , 1 st Ed., 2002, Benjamin Cummings
177:	YILDIZ, A	
REQ	Phillips/ Kondev/ Theriot	<i>PHYSICAL BIOLOGY OF THE CELL</i> , 2 nd Ed., 2012, Garland Science
H190:	CROMMIE	
		NO TEXTBOOK REQUIRED
C202:	MA, C	
		SEE ASTRONOMY DEPARTMENT
211:	LEE, D	
REQ	Reif	<i>FUNDAMENTALS OF STATISTICAL & THERMAL PHYSICS</i> , 1 st ed., 2008, Waveland Press
212:	MOORE, J	
REC	Kardar	<i>STATISTICAL PHYSICS OF FIELDS</i> , Cambridge
221B:	WHITE, M	
REQ	Merzbacher	<i>QUANTUM MECHANICS</i> , 3 rd ed., 1997, Wiley
REC	Bjorken/ Drell	<i>RELATIVISTIC QUANTUM MECHANICS (PURE & APPLIED PHYSICS)</i> , 1 st ed., 1998, McGraw-Hill
REC	Sakurai	<i>ADVANCED QUANTUM MECHANICS</i> , 1968, Addison Wesley
231:	NOMURA, Y	
REQ	Wald	<i>GENERAL RELATIVITY</i> , 1 st , 1984, University of Chicago Press
232B:	MURAYAMA, H	
REQ	Peskin & Schroeder	<i>AN INTRODUCTION TO QUANTUM FIELD THEORY</i> , 1995, Perseus
233A:	HALL, L	
REQ	Peskin & Schroeder	<i>AN INTRODUCTION TO QUANTUM FIELD THEORY</i> , 1995, Perseus
234B:	BOUSSO, R	
		NO TEXTBOOK REQUIRED

240B: LOUIE, S

- REC Marder *CONDENSED MATTER PHYSICS*, 2nd Ed., 2010, Wiley
REC Madelung *INTRODUCTION TO SOLID STATE THEORY*, 2008, Springer
REC Schrieffer *THEORY OF SUPERCONDUCTIVITY*, 1999, Perseus
REC Yu/ Cordona *FUNDAMENTALS OF SEMICONDUCTORS*, 3rd Ed., 2001, Springer
REC Ziman *PRINCIPLES OF THEORY OF SOLIDS*, 2nd Ed., 1972, Cambridge
University Press
REC Ashcroft *SOLID STATE PHYSICS*, Cengage

242B: BALE, S

- REQ Bellan *FUNDAMENTALS OF PLASMA PHYSICS*, Cambridge

**250: MUELLER, H
TBD**
