

PHYSICS DEPARTMENT
Spring 2012 Textbook List

Course No. & Instructor	Author	Title of Textbook and Publisher
100	U of I	<i>Physics 100 Lecture Notes.</i> Latest. Stipes
G. Gladding		I-Clicker Remote. Von Holtzbrinck Publishing Services
101	Giambattista, Richardson, Richardson	<i>College Physics, Vol. 1.</i> 3 rd ed. McGraw Hill
T. Ha	U of I	<i>Physics 101 Laboratory Experiments.</i> Latest. Stipes
	U of I	Discussion Materials for Physics 101. Latest. Stipes
		I-Clicker Remote. Von Holtzbrinck Publishing Services
	Recommended U of I	<i>Physics 101 Hour Exams.</i> Latest. Stipes
	U of I	<i>Physics 101 Lecture Notes.</i> Latest. Stipes
102	Giambattista, Richardson, Richardson	<i>College Physics, Vol. 2.</i> 3 rd ed. McGraw Hill
B. DeMarco	U of I	<i>Physics 102 Laboratory Experiments.</i> Latest. Stipes
	U of I	<i>The Physics 102 Problem Solver.</i> Latest. Stipes
		I-Clicker Remote. Von Holtzbrinck Publishing Services
	Recommended U of I	<i>Physics 102 Hour Exams.</i> Latest. Stipes
	U of I	<i>Physics 102 Lecture Notes.</i> Latest. Stipes
123		No required textbook.
A. Hubler		
150	Muller	<i>Physics and Technology for Future Presidents: An Introduction to the Essential Physics Every World Leader Needs to Know.</i> 2010, Princeton University Press
S. Willenbrock		I-Clicker Remote. Von Holtzbrinck Publishing Services
199REL	Muller	<i>Physics and Technology for Future Presidents: An Introduction to the Essential Physics Every World Leader Needs to Know.</i> 2010, Princeton University Press
K. Pitts		

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211	Gladding, Selen & Stelzer	<i>Classical Mechanics</i> . 1 st Ed. Freeman
M. Selen	U of I	<i>Physics 211 Laboratory Experiments</i> . Latest. Stipes
	U of I	<i>Discussion Materials for Physics 211</i> . Latest. Stipes
	U of I	<i>Physics 211 Lecture Packet</i> . Latest. Stipes
		I-Clicker Remote. Von Holtzbrinck Publishing Services
	Recommended U of I	<i>Physics 211 Past Hour Exams</i> . Latest. Stipes
212	Gladding, Selen, & Stelzer	<i>Electricity and Magnetism</i> . 1 st ed. Freeman
D. Beck	U of I	<i>Physics 212 Lecture Packet</i> . Latest. Stipes
	U of I	<i>Physics 212 Laboratory Experiments</i> . Latest. Stipes
	U of I	<i>Discussion Materials for Physics 212</i> . Latest. Stipes
		I-Clicker Remote. Von Holtzbrinck Publishing Services
	Recommended U of I	<i>Physics 212 Past Hour Exams</i> . Latest. Stipes
213	Wolfe	<i>Elements of Thermal Physics</i> . 2 nd ed. Hayden McNeil
P. Kwiat	U of I	<i>Physics 213 Laboratory Experiments</i> . Latest. Stipes
	U of I	<i>Discussion Materials for Physics 213</i> . Latest. Stipes
		I-Clicker Remote. Von Holtzbrinck Publishing Services
	U of I	<i>Physics 213 Lecture Notes</i> . Latest. Stipes
214	U of I	<i>Physics 214 Lecture Notes</i> . Latest. Stipes
P. Kwiat	U of I	<i>Physics 214 Laboratory Experiments</i> . Latest. Stipes
	U of I	<i>Discussion Materials for Physics 214</i> . Latest. Stipes
		I-Clicker Remote. Von Holtzbrinck Publishing Services
	Recommended Young & Freedman	<i>University Physics with Modern Physics</i> (Custom Edition). 2008. Pearson
225		No required textbook.
J. Wiss		

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Course No. & Instructor	Author	Title of Textbook and Publisher
280	Aaron	<i>The Little, Brown Essential Handbook for Writers.</i> 6 th ed. Pearson Longman
F. Lamb/	Richardson	<i>What Terrorists Want.</i> 2006. Random House
M. Grosse-Perdekamp		
325	Thorton & Marion	<i>Classical Dynamics of Particles and Systems.</i> 5 th ed. Brooks Cole
R. Weaver	Taylor	<i>Classical Mechanics.</i> University Science Books
	Recommended	Thornton
		<i>Student Solutions Manual for Classical Dynamics.</i> 5 th ed. Brooks Cole
326	Thorton & Marion	<i>Classical Dynamics of Particles and Systems.</i> 5 th ed. Brooks Cole
G. Gollin		
401		No required textbook.
E. Colla		
402	Hecht	<i>Optics.</i> 4 th ed. Addison-Wesley
M. Nayfeh		
403		No required textbook.
R. Clegg		
404		No required textbook.
R. Giannetta	Recommended	Horowitz & Hill
		<i>The Art of Electronics.</i> 2 nd ed. Cambridge University Press
406	Rossing, Moore & Wheeler	<i>The Science of Sound.</i> 3 rd ed. Addison Wesley
S. Errede		
419/420	Cushing	<i>Philosophical Concepts in Physics</i> (Pbk.). 1998. Cambridge University Press
M. Weissman	Rohrlich	<i>From Paradox to Reality</i> (Pbk.). 1989. Cambridge University Press
	Sklar	<i>Philosophy of Physics.</i> 1992. Westview Press
		*NOTE: These three books should be listed as required but as alternative.
	Recommended	Feynman
		<i>Character of Physical Law.</i> 1994. MIT Press

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427 Y. Chemla	Kittel & Kroemer	<i>Thermal Physics.</i> 2 nd ed. W.H. Freeman
435 P. Abbamonte	Griffiths	<i>Introduction to Electrodynamics.</i> 3 rd ed. Prentice Hall
436 T. Liss	Griffiths	<i>Introduction to Electrodynamics.</i> 3 rd ed. Prentice Hall
470 M. Neubauer	Griffiths	<i>Introduction to Elementary Particles.</i> 2 nd ed. Wiley
485 J. Eckstein	Townsend	<i>Quantum Physics: A Fundamental Approach to Quantum Physics.</i> 1 st ed. University Science Books
486 K. Dahmen	Griffiths	<i>Introduction to Quantum Mechanics.</i> 2 nd ed. Benjamin Cummings
Recommended	Shankar	<i>Principles of Quantum Mechanics.</i> 2 nd ed. Plenum
487 A. El-Khadra	Griffiths	<i>Introduction to Quantum Mechanics.</i> 2 nd ed. Benjamin Cummings
496 L. Greene/C. Elliott		No required textbook.
498BIP P. Selvin		No required textbook.

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504		No required textbook.
Y. Oono		
509		No required textbook.
M. Stone	Recommended Stone & Goldbart	<i>Mathematics for Physics: A Guided Tour for Graduate Students.</i> 2009. Cambridge University Press
516	Misner, Thorne & Wheeler	<i>Gravitation.</i> 1 st ed. W.H. Freeman
S. Shapiro	Lightmen, et. Al	<i>Problem Book in Relativity & Gravitation.</i> 1975. Princeton University Press
	Recommended Schultz	<i>A First Course in General Relativity.</i> 1985. Cambridge University Press
	Recommended Weinberg	<i>Gravitation & Cosmology: Principles and Applications of the General Theory of Relativity.</i> 1972. Wiley.
	Recommended Baumgarte & Shapiro	<i>Numerical Relativity: Solving Einstein's Equations on the Computer.</i> 2010. Cambridge University Press
554		No required textbook.
K. Schulten	Recommended Risken	<i>The Fokker-Planck Equation: Methods of Solution and Applications.</i> 2 nd ed. Springer-Verlag
	Recommended Gardiner	<i>Handbook of Stochastic Methods for Physics, Chemistry, and the Natural Sciences.</i> 3 rd ed. Springer-Verlag
	Recommended Zwanzig	<i>Nonequilibrium Statistical Mechanics.</i> 1 st ed. Oxford University Press
560	Marder	<i>Condensed Matter Physics.</i> 2 nd ed. Wiley
P. Phillips		
563		No required textbook.
N. Goldenfeld	Recommended Goldenfeld	<i>Lectures on Phase Transitions and the Renormalization Group.</i> 1992. Westview Press
575	Aitchison & Hey	<i>Gauge Theories in Particle Physics.</i> 3 rd ed. Taylor & Francis
J. Peng		
581		No required textbook.
J. Stack		

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583	Cardy	<i>Scaling and Renormalization in Statistical Physics</i> . 1996. Cambridge University Press
E. Fradkin	Peskin & Schroeder	<i>An Introduction to Quantum Field Theory</i> . 1995. HarperCollins Publishers
Recommended	Doniach & Sondheimer	<i>Green's Functions for Solid State Physics</i> . 1998. Imperial College Press
598MN		No required textbook.
N. Mason	Datta	<i>Electronic Transport in Mesoscopic Systems</i> . 1997. Cambridge University Press
STRONGLY Recommended	Nazarov & Blanter	<i>Quantum Transport: Introduction to Nanoscience</i> . 2009. Cambridge University Press
STRONGLY Recommended		
598 OMB/OMD		No required textbook.
R. Clegg		

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598CM2/CM4		No required textbook.
S. Vishveshwara		
598OMB/OMD		No required textbook.
R. Clegg		
598SE		No required textbook.
R. Clegg		