

Physics 123 Course Schedule for Serway and Jewett, 6<sup>th</sup> and 7<sup>th</sup> Editions  
Fall 2008

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	9/1 Labor Day	9/2	9/3 C1	9/4	9/5 C2	9/6
2	9/8 C3 HW0	9/9	9/10 C4 HW0	9/11 HW0	9/12 C5 HW0	9/13
3 Lab 1	9/15 C6 HW1	9/16	9/17 C7 HW1	9/18 HW1	9/19 C8 HW1	9/20
4 Lab 2	9/22 C9 HW1	9/23 Quiz 14,16,17	9/24 C10 HW2	9/25 HW2	9/26 C11 HW2	9/27
5 Lab 3	9/29 C12 HW2	9/30 Quiz 18 Test 1	10/1 C13 HW3	10/2 HW3	10/3 C14 HW3	10/4
6 No Lab	10/6 C15 HW3	10/7 No Quiz	10/8 C16 HW4	10/9 HW4	10/10 C17 HW4	10/11
7 Lab 4	10/13 C18 HW4	10/14 Quiz 19-21	10/15 C19 HW5	10/16 HW5	10/17 C20 HW5	10/18
8 No Lab	10/20 C21 HW5	10/21 Quiz 22 Test 2	10/22 C22 HW6	10/23 HW6	10/24 C23 HW6	10/25
9 Lab 5	10/27 C24 HW6	10/28 Quiz 35	10/29 C25 HW7	10/30 HW7	10/31 C26 HW7	11/1
10 Lab 6	11/3 C27 HW7	11/4 Quiz 36	11/5 C28 HW8	11/6 HW8	11/7 C29 HW8	11/8
11 Lab 7	11/10 C30 HW8	11/11 Quiz 37	11/12 C31 HW9	11/13 HW9	11/14 C32 HW9	11/15
12 Lab 8	11/17 C33 HW9	11/18 Quiz 38 Test 3	11/19 C34 HW10	11/20 HW10	11/21 C35 HW10	11/22
13	11/24 C36 HW10	11/25 C37 Quiz 39 HW10	11/26	11/27	11/28	11/29
Thanksgiving Break						
14 Lab 9	12/1 C38 HW11	12/2 Quiz 40-43 HW11	12/3 C39 HW11	12/4 HW11	12/5 C40 HW11	12/6
15	12/8 C41 HW12	12/9 HW12	12/10 C42 HW12	12/11 HW12 Quiz 42-44,46	12/12	12/13
Reading Days						
	12/15	12/16	12/17	12/18	12/19	12/20
Final Exams						

Class	Topic	Reading (7 <sup>th</sup> ed.)	HW Problems
C1	Using MAPLE and PYTHON		
C2	Course Introduction		HW0:1-4
C3	Fluid Statics	14:1-4	HW1:1,3,4
C4	Fluid Dynamics	14:5-7	HW1:2,5-11
C5	Wave Fundamentals	16:1-4	HW1:12-18
C6	Sound Waves	17:1-4	HW1:19-21
C7	Standing Waves and Resonance	18:1-4	HW2:1-7
C8	Standing Wave Applications	18:5-8	HW2:8-14
C9	Sound Recording and Musical Acoustics	17:5-6	HW2:15-17
C10	Basics of Thermodynamics	19:1-5	HW3:1-5
C11	Review for Test 1 Covers C1 – C9 9/30 opening – 10/2, 1pm Late: 10/2, 1 pm – 10/6		
C12	The First Law of Thermodynamics	20:1-5	HW3:6-9
C13	Applications of the First Law	20:6-7	HW4:1-12
C14	The Kinetic Theory of Gases	21:1-3	HW4:13-14
C15	Equipartition and Speed Distribution	21:4-7	HW4:15-16
C16	Heat Engines	22:1-3	HW5:1-3
C17	Applications of Heat Engines	22:4-5	HW5:4-9
C18	Entropy and the Second Law	22:6-8	HW5:10:13
C19	The Nature of Light and Reflection	35:1,2,4,6	HW6:1
C20	Review for Test 2 Covers C10 – C18 10/21 opening – 10/23, 1pm Late: 10/23, 1 pm – 10/27		
C21	Refraction	35:-3,5,7,8	HW6:2-5
C22	Mirrors	36:1-2	HW7:1-6
C23	Lenses	36:3-5	HW7:7-14
C24	Optical Applications	36:6-10	HW7:15-18
C25	Double Slit Interference	37:1-4	HW8:1-5
C26	Thin Films and the Interferometer	37:5-7	HW8:6-9
C27	Single and Multiple Slits	38:1-4	HW8:10-12
C28	Polarization of Light	38:5-6	HW8:13-14
C29	The Foundations of Relativity	39:1-3	HW9 :1-7
C30	Review for Test 3 Covers C19 – C28 11/18 opening – 11/20, 1pm Late: 10/20, 1 pm – 11/24, 1 pm		
C31	Space and Time Transformations	39:4-6	HW10:4-7
C32	Relativistic Kinematics	39:7-9	HW10:8-12
C33	How Quantum Mechanics Began	40:1-8	HW10:2-3,13-17
C34	Quantum Waves	41:1-7 (skim 4-7)	HW11:1,4-6
C35	Atomic Physics	42:1-7 (skim 4-5)	HW11:2,7-11
C36	Molecules and Solids	43:1,5-6	HW11:3,12-15
C37	Nuclear Physics Applications	45:1-4 (don't read)	None
C38	Nuclear Physics	44:1-5	HW12
C39	Introduction to Particle Physics	46:1-6	HW12
C40	The Standard Model	46:7-10	HW12
C41	General Relativity and Cosmology	39:10,46:11	None