

7A Spring 2015 Course Schedule

Week	Dates	Lecture Topics	Giancoli	Discussion	Lab	Homework
1	Jan 19-23**	Introduction, Vectors, 1D Kinematics	1,2	Math Review, WS 1	Kinematics 1	Intro to MP
2	Jan 26-30	2D and 3D Motion, Force	3,4	WS 2, 3	Kinematics 2	Ch 1,2
3	Feb 2-6	Newton's Laws	4	WS 4, 5	Quiz	Ch 3,4
4	Feb 9-13	Newton's Laws, Friction	5	WS 6	Dynamics	Ch 4,5
5	Feb 16-20**	Gravitation	6	WS 7, 18	Quiz	Ch 5,6
6	Feb 23-27 (M)	Work and Energy	7	WS 8	(discussion twice)	Ch 6,7
7	Mar 2-6	Conservation of Energy	8	WS 9	Quiz	Ch 7,8
8	Mar 9-13	Linear Momentum	9	WS 10a, 10b	Collisions	Ch 8,9
9	Mar 16-20	Rotational Kinematics and Dynamics	10	WS 11, 14	Quiz	Ch 9,10
	Mar 23-27	Spring Break!				
10	Mar 30-Apr 3	Angular Momentum	11	WS 15, 16	Rotation	Ch 10,11
11	Apr 6-10 (M)	Statics, Fluids	12,13	WS 13, 20	(discussion twice)	Ch 11,12
12	Apr 13-17	Fluids, Oscillations	13,14	WS 21	Quiz	Ch 12,13
13	Apr 20-24	Oscillations	14	WS 17	Oscillations	Ch 13,14
14	Apr 27-May 1	Waves and Sound	15,16	WS 19	Waves	Ch 14,15
	May 4-8	RRR week				
	May 11-15	Finals				

**Jan 19 and Feb 16 (both Mondays) are university holidays

(M) stands for Midterm Exam. Lecture 1 midterms are 2/23 and 4/6; Lecture 2 and 3 midterms are 2/24 and 4/7. Midterms are held 7-9pm.

IMPORTANT NOTE: This is a tentative schedule, and may be changed as the semester goes on. Expect lecture, discussion, and homework to be up to a week ahead or behind this schedule. **Lab dates** will not change (except those affected by Monday holidays; see your GSI). GSIs may reschedule **quizzes** at their discretion, and will give you advanced notice if they do.

Giancoli Chapters

- 1 Intro, Measurement, Estimation
- 2 1D Kinematics
- 3 2D and 3D Kinematics
- 4 Newton's Laws
- 5 Friction, Circular Motion
- 6 Gravitation
- 7 Work and Energy
- 8 Conservation of Energy
- 9 Linear Momentum
- 10 Rotational Motion
- 11 Angular Momentum
- 12 Statics
- 13 Fluids
- 14 Oscillations
- 15 Waves
- 16 Sound

List of worksheets and topics

- 1 Position, Velocity, Acceleration
- 2 One-dimensional Kinematics
- 3 Two-dimensional Motion I
- 4 Two-dimensional Motion II
- 5 Force and Newton's Laws
- 6 Friction
- 7 Centripetal Motion
- 8 Work and Kinetic Energy
- 9 Conservation of Energy
- 10a Center of Mass and Collisions I
- 10b Impulse, Momentum, and Collisions II
- 11 Introduction to Rotation
- 13 Statics
- 14 Rotational Energy
- 15 Rotational Dynamics
- 16 Angular Momentum
- 17 Oscillations
- 18 Gravitation
- 19 Waves
- 20 Fluid Statics
- 21 Fluid Dynamics