

Physics 2210 Tentative Schedule, Spring 2021

	Monday	Tuesday	Wednesday	Thursday	Friday
January	11 Overview; Numbers Vol. 1, Chapter 1	12 Velocity in One Dimension 3.1 - 3.2	13 Acceleration in 1D 3.3	14 Constant Acceleration 3.4 - 3.6	15 Problem Set and Quiz #1
	18 M.L. King Day	19 Vectors 2.1 - 2.2	20 More about Vectors 2.3 - 2.4	21 Velocity and Accel. Vectors 4.1 - 4.2	22 Problem Set and Quiz #2
	25 Projectile Motion 4.3	26 Uniform Circular Motion 4.4 - 4.5	27 Newton's First Law 5.1 - 5.2	28 Newton's Second Law 5.3 - 5.4	29 Problem Set and Quiz #3
February	1 Test (problem sets 1-3)	2 Types of Forces 5.6	3 Force Diagrams 5.7	4 Constrained Motion Problems 6.1 - 6.2	5 Problem Set and Quiz #4
	8 Circularly Constrained Motion 6.3 - 6.4	9 Newton's Third Law 5.5	10 Third Law Problems	11 Systems of Particles 9.6	12 Problem Set and Quiz #5
	15 Presidents Day	16 Momentum 9.1 - 9.3	17 Collisions 9.4 - 9.7	18 Kinetic and Grav'l Energy 7.2, 8.1	19 Problem Set and Quiz #6
	22 Test (problem sets 4-6)	23 Elastic Energy 8.2 - 8.3	24 Energy Diagrams 8.4	25 Work 7.1	26 Problem Set and Quiz #7
March	1 More about Work 7.3 - 7.4	2 The Many Forms of Energy 8.5	3 Rotational Kinematics 10.1 - 10.3	4 Rotational Dynamics 10.4 - 10.8	5 Problem Set and Quiz #8
	8	9	10 Spring Break	11	12
	15 Angular Momentum 11.1 - 11.3	16 Gravitation 13.1 - 13.2	17 Gravitational Energy 13.3 - 13.4	18 Fluids Chapter 14	19 Problem Set and Quiz #9
	22 Test (problem sets 7 - 9)	23 Oscillations 15.1 - 15.4	24 Describing Waves 16.1	25 Sinusoidal Waves 16.2	26 Problem Set and Quiz #10
	29 Wave Dynamics 16.3 - 16.4	30 Standing Waves 16.5 - 16.6	31 Sound Waves 17.1 - 17.3	1 Musical Instruments 17.4 - 17.7	2 Problem Set and Quiz #11
April	5 Test (problem sets 9 - 11)	6 Temperature Vol. 2, 1.1 - 1.3	7 The Ideal Gas Law 2.1	8 Equipartition of Energy 2.3	9 Problem Set and Quiz #12
	12 Liquids and Solids 2.2	13 Compression Work 3.1 - 3.2	14 Heat 3.3 - 3.4, 1.6	15 Specific Heat 1.4 - 1.5, 3.5 - 3.6	16 Problem Set and Quiz #13
	19 Entropy 4.7	20 Entropy and Heat 4.6	21 Heat Engines 4.1 - 4.3	22 Refrigerators 4.4 - 4.5	23 Problem Set and Quiz #14
	26 Review for Final Exam	27	28 Final Exam 1:00 - 2:50 pm	29	30

Readings are from OpenStax University Physics, volumes 1 and 2