

ENES 221 Dynamics

(reference only, schedule is subjected to change)

WK	Topics	Sections in Book	Homework
1	Intro, Review of Statics	12:1	
	Particle Kinematics	12:2-3	
2	Rectangular Coordinates	12:4-6	
	Curvilinear Coordinates	12:7-8	
3	Multiple Particles, Newton's 2nd Law	12:9-10, 13-1	
	Equations of Motion	13:2-3	HW #1 due
4	Normal and Tangential Coordinates	13:5-6	
	Review 12-13		
5	TEST 1		
	Work and Energy	14:1-2	
6	Power and Efficiency	14:3-4	Project 1 due
	Conservation of Energy	14:5-6	
7	Impulse and Momentum	15:1-3	HW #2 due
	Impact	15-4	
8	Conservation of Momentum	15:5-7	
	Review 14-15		
9	TEST 2		
	Rigid Body Planar Kinematics	16:1-4	
10	Relative Motion - Velocity	16:5-6	HW #3 due
	Relative Motion - Acceleration	16:7-8	
11	Moment of Inertia, Planar Kinetics	17:1-2	
	Equation of Motion -Translation/Rotation	17:3-3-4	Project 2 due
12	Equation of Motion -General Motion	17:5	
	Review 16-17		
13	TEST 3		HW #4 due
	Conservation of Energy/System View	18	
14	Conservation of Momentum/System View	19	
	Review 18-19		
15	Final Exam 12:30		HW #5 due