

ENES 102 Statics

(reference only, schedule is subjected to change)

WK	Topics	Sections in Book	Homework
1	Intro to Statics	1	
	Force Vector Additions - Graphics	2:1-3	
2	2D and 3D Cartesian Vector Addition	2:4-5	
	Position Vector	2:6-8	
3	Dot Product	2:9	
	Free-Body Diagram	3:1-2	HW #1 due
4	Equilibrium of a Particle	3:3-4	
	Review		
5	TEST 1		
	Moment of a Force - Scalar Formula	4:1-2	
6	Moment of a Force - Vector Formula	4:3-5	
	Moment of Couple	4:6	HW #2 due
7	Force System Simplification	4:7-8	
	Distributed Forces	4:9	
8	Rigid Body Free-Body Diagram	5:1	project 1 due
	Equilibrium of a Rigid Body	5:2-4	
9	Review		
	TEST 2		HW #3 due
10	Method of Joint	6:1-2	
	Method of Section	6:3-4	
11	Frame and Machine	6:6	
	Internal Forces	7:1	
12	Shear-Moment Diagram	7:2	project 2 due
	Review		
13	TEST 3		HW #4 due
	Friction	8:1-2	
14	Center of Gravity/Centroid	9:1	
	Centroid, Moment of Inertia	9:2, 10:1	
15	Moment of Inertia	10:2-4	
	Final Exam 10:15		HW #5 due