

Course Schedule

Instructor reserves the right to revise the schedule and course contents as necessary.

Problem sets are due via MasteringEngineering by the beginning of class unless otherwise noted.

Week	Class	Month	Date	Day	Topics	Text Material	ME HW Due Dates
1	1	Jan.	22	Tu	Class Introduction, Fundamentals Exam		CATME Survey due 11:59pm.
	2		24	Th	Rectilinear Kinematics: Continuous Motion, Erratic Motion	12.1-2 12.3	ME Intro (Fri 5 pm) HW #1 (due end of class)
2	3		29	Tu	General Curvilinear Motion, Rectangular Components Projectile Motion	12.4-5 12.6	ME 12.1-3
	4		31	Th	Normal & Tangential (n-t) Components	12.7	ME 12.4-6 ME Math Review (Fri 5 pm)
3	5	Feb.	5	Tu	Absolute Dependent Motion, Relative Motion	12.9-10	ME 12.7
	6		7	Th	Kinetics of Particles, Newton's 2 nd Law	13.1-3	ME 12.9-10
4	7		12	Tu	Equations of Motion, Rectangular Coordinates	13.4	ME 13.1-3
	8		14	Th	Equations of Motion: Normal & Tangential (n-t) Coordinates	13.5	ME 13.4
5	9		19	Tu	Kinetics of Particles, Work & Energy	14.1-3	ME 13.5
	10		21	Th	Exam #1, Chapters 12-13		Ch 12&13 Extra Credit Problems
6	11		26	Tu	Power & Efficiency Conservative Forces, Conservation of Energy	14.4 14.5-6	ME 14.1-3
	12		28	Th	Linear Impulse & Momentum	15.1	ME 14.4-6
7	13	Mar.	5	Tu	Conservation of Linear Momentum for a System of Particles	15.2-3	ME 15.1
	14		7	Th	Impact	15.4	ME 15.2-3
8			12	Tu	No Class: Spring Break		
			14	Th	No Class: Spring Break		
9	15		19	Tu	Kinematics of Rigid Bodies, Translation & Rotation about a Fixed Axis	16.1-3	ME 15.4
	16		21	Th	Exam #2, Chapters 14-15		Ch 14&15 Extra Credit Problems
10	17		26	Tu	Absolute Motion	16.4	ME 16.1-3
	18		28	Th	Relative Motion, Velocity	16.5	ME 16.4
11	19	Apr.	2	Tu	Relative Motion, Velocity	16.5b	ME 16.5a
	20		4	Th	Instantaneous Center	16.6	ME 16.5b
12	21		9	Tu	Relative Motion, Acceleration	16.7	ME 16.6
	22		11	Th	Relative Motion, Acceleration	16.7b	ME 16.7a Team Manual-C1
13	23		16	Tu	Kinetics of Rigid Bodies, MMOI	17.1	ME 16.7b
	24		18	Th	Equations of Motion: Translation, Rotation, Fixed Axis	17.2-3 17.4	ME 17.1 Team Manual-C2
14	25		23	Tu	Equations of Motion: General Plane Motion	17.5	ME 17.2-4
	26		25	Th	Rigid Bodies: Kinetic Energy, Work, Principle of Work and Energy	18.1-4	ME 17.5 Team Manual
15	27		30	Tu	Conservation of Energy	18.5	ME 18.1-4
	28	May	2	Th	Conservation of Energy	18.5	ME 18.5
16	29		7	Tu	Exam #3, Chapters 16-18		Ch 16, 17, 18 Extra Credit Problems
	30		9	Th	Final Exam Review		
			17	F	Final Exam, Ch12-18, 10:30am-1:00pm		

