

# CALENDAR OF TOPICS

## FALL 2007

MONDAY	WEDNESDAY	FRIDAY
Calendar subject to change.		8/31 151 Review Units and Linear Motion under Constant Acceleration
9/3 TM5 Ch. 2.1-2.3, Video Newton's Laws & Frames of Reference	9/5 Review Forces in Equilibrium ( $\Sigma F=0$ )	9/7 TM5 Ch. 2.4 Motion under Constant Force: $F = \text{constant}, \Sigma F \neq 0$
9/10 TM5 2.4 Motion under Constant Centripetal Force	9/12 TM5 Ch. 2.4 Motion under Constant Gravitational Force	9/14 TM5 Ch. 2.4 $F=F(v)$ : Drag in Horizontal & Vertical Motion
9/17 TM5 Ch. 2.4 $F=F(v)$ : Drag in Projectile Motion	9/19 TM5 Ch 2.1-4 $F=F(v)$ : Drag in Projectile Motion	9/21 TM5 Ch 2.1-4 Conservation Laws
9/24 TM5 Ch. 2.5 Atwood's Machine & Synchrotron Motion	9/26 TM5 Ch. 2.5 Catch-Up & Review	9/28 TM5 Ch. 2.6 EXAM 1
10/1 TM5 Ch. 3.2 Simple Harmonic Motion	10/3 TM5 Ch. 3.3-4 More Fun With SHM	10/5 TM5 Ch. 3.5 2-D SHM: Lissajou Figures Phase Diagrams
10/8 TM5 Ch. 3.5 Damped Oscillations: Underdamped Motion	10/10 TM5 Ch. 3.5 More Fun With Underdamped Motion	10/12 <b>FALL BREAK</b>
10/15 TM5 Ch. 3.6 Damped Oscillations: Critical and Overdamped	10/17 TM5 Ch. 3.6-7 Driven Harmonic Oscillations	10/19 TM5 Ch. 3.8 Resonance & Electrical Oscillations
10/22 TM5 Ch. 4 Non-linear Oscillations	10/24 TM5 Ch. 4 Chaos	10/26 TM5 Ch. 4 More Chaos
10/29 TM5 Ch. 3 & 4 Catch-up & Review	10/31 TM5 Ch. 3 & 4 Exam 2	11/2 TM5 5.1-4 Gravitational & Electrostatic Potential
11/5 TM5 Ch. 5.5 Tides	11/7 TM5 Ch. 5.5 Tides	11/9 TM5 Ch. 7.2 Calculus of Variations: The Brachistochrone
11/12 TM5 Ch. 7.2 Hamilton's Principle: Lagrange's Equations	11/14 TM5 Ch. 7.3-4 Lagrange's Equations	11/16 TM5 Ch. 7.3-4 Lagrange's Equations
11/19 ←	11/21 <b>THANKSGIVING BREAK</b>	11/23 →
11/26 TM5 Ch. 8.1-4 Central Force Motion	11/28 TM5 Ch. 8.5-7 Kepler's Problem	11/30 TM5 Ch. 8.8-9 Orbital Dynamics
12/3 TM5 Ch. 9.1-5 Systems of Particles	12/5 TM5 Ch. 9.11 Rocket Science	12/7 TM5 Ch. 10.1-3 Rotating Coordinate Systems
12/10 TM5 Ch. 10.4 Motion Relative to the Earth	12/12 Review	12/14 Review

FINAL EXAM  
WEDNESDAY, DECEMBER 19, 8:30 AM