

EASTERN NAZARENE COLLEGE

PY 201 General Physics I

Fall 2006

CLASS SCHEDULE:

- Wednesday Oct. 30 - Introduction to Physics and Concepts of Motion
read: chapter 1, sections 1, 2, and 3
- Thursday/Friday - Lab: Introduction to Windows, Excel, and Maple*
- Friday Sept. 1 - Concepts of Motion
read: chapter 1, sections 4, 5, 6, and 7
- Monday Sept. 4 - Motion in One Dimension - Linear Motion
- Labor Day- read: chapter 1, sections 8 and 9; chapter 2, sections 1, 2, and 3
- Wednesday Sept. 6 - Motion and Differential Calculus
read: chapter 2, sections 4, 5, and 8
Maple tutorial www.ncsu.edu/felder-public/tutorials/maple1.htm
- Thursday/Friday - Lab: Motion: Displacement, Velocity, and Acceleration*
- Friday Sept. 8 - Constant Acceleration: Free Fall
read: chapter 2, sections 5, 6, and 7
- Monday Sept. 11 - Vectors
read: chapter 3
- Wednesday Sept. 13 - Forces and Force Diagrams
read: chapter 4, sections 1, 2, 3, 4
- Thursday/Monday - Lab: Constant Acceleration: Free Fall*
- Friday Sept. 15 - Force and Motion: Newton's Laws
read: chapter 4, sections 5, 6, 7
- Monday Sept. 18 - Dynamics: Motion Along a Line
read: chapter 5, section 1, 2, 3
- Wednesday Sept. 20 - Friction and Drag
read: chapter 5, sections 4, 5, 6
- Thursday/Friday - Lab: Nonuniform Motion and Newton's Law*
- Friday Sept. 22 - Dynamics: Motion in a Plane
read: chapter 6 sections 1, 2, 3, 4

Sunday	Sept. 24	Review Session for Exam #1
Monday	Sept. 25	- Exam #1 covers material from Aug. 30 through Sept. 20
Wednesday	Sept. 27	- Dynamics: Motion in a Circle read: chapter 7, sections 1, 2, 3
<i>Thursday/Friday</i>		- <i>Lab: Projectile Motion</i>
Friday	Sept. 29	- Nonuniform Circular Motion read: chapter 7, sections 4, 5, 6
Monday	Oct. 2	- Newton's Third Laws (Maybe one lecture) read: chapter 8, sections 1, 2, 3
Wednesday	Oct. 4	- Application of Newton's Laws read: chapter 8, sections 4, 5
<i>Thursday/Friday</i>		- <i>Lab: Newton's Second Law and Friction</i>
Friday	Oct. 6	- Impulse and Momentum read: chapter 9, sections 1, 2, 3
Monday	Oct. 9	- Columbus Day -no class
Wednesday	Oct. 11	- Collisions read: chapter 9, sections 4, 5, 6, 7
<i>Thursday/Friday</i>		- <i>Lab: Work and Energy</i>
Friday	Oct. 13	- Energy read: chapter 10 sections 1, 2, 3
Monday	Oct. 16	- Energy Applications read: chapter 10, sections 4, 5, 6, 7
Wednesday	Oct. 18	- Work (Maybe some of chapter 12) read: chapter 11, sections 1, 2, 3, 4
<i>Thursday/Friday</i>		- <i>Lab: Collisions</i>
Friday	Oct. 20	- Work read: chapter 11, sections 5, 6, 7, 8, 9
Monday	Oct. 23	- Kinematics: Rotation of a Rigid Body read: chapter 13, sections 1, 2
Wednesday	Oct. 25	- Dynamics: Rotation of a Rigid Body read: chapter 13, sections 3, 4, 5, 6

- Thursday/Friday* - *Lab: Rotational Dynamics*
- Friday Oct. 27 - Energy: Rotation of a Rigid Body
read: chapter 13, sections 7, 8, 9, 10
- Sunday Oct. 29 - **Review Session for Exam #2**
- Monday Oct. 30 - **Exam #2 covers material from Sep. 28 through Oct. 29 (25?)**
- Wednesday Nov. 1 - Simple Harmonic Motion
read: chapter 14, sections 1, 2, 3, 4
- Thursday/Friday* - *Lab: Hook's Law and Harmonic Oscillator*
- Friday Nov. 3 - Examples of Oscillations
read: chapter 14, sections 5, 6, 7, 8
- Monday Nov. 6 - Macroscopic Description of Matter
read: chapter 16, sections 1, 2, 3, 4
- Wednesday Nov. 8 - Ideal Gas
read: chapter 16, sections 5, 6
- Thursday/Friday* - *Lab: Standing Waves in a Tube*
- Friday Nov. 10 - Heat and Work
read: chapter 17, sections 1, 2, 3
- Monday Nov. 13 - First Law of Thermodynamics
read: chapter 17, sections 4, 5, 6, 7
- Wednesday Nov. 15 - The Micro/Macro Connection
read: chapter 18, sections 1, 2, 3
- Thursday/Friday* - *Lab: Ideal Gas Laws*
- Friday Nov. 17 - The Second Law of Thermodynamics
read: chapter 18, sections 4, 5, 6
- Monday Nov. 20 - Heat Engines and Refrigerators
read: chapter 19, sections 1, 2, 3, 4
- Wednesday Nov. 22 - **Thanksgiving Break starts -5:00 PM**
- Monday Nov. 27 - Traveling Waves
read: chapter 20, sections 1, 2, 3
- Wednesday Nov. 29 - Sound

read: chapter 20, sections 3, 4, 5, 6, 7

Thursday/Friday - *Lab: Make-up Lab*

Friday Dec. 1 - Standing Waves
read: chapter 21, sections 1, 2, 3, 4, 5

Sunday Dec. 3 - **Review for Exam #3**

Monday Dec. 4 - **Exam #3 covers material from Nov. 1 through Dec. 1**

Wednesday Dec. 6 - **Reading Day**

Thursday Dec. 7-12 - **Finals Start**

***Have a great Christmas
and a happy New Year !***