

# EASTERN NAZARENE COLLEGE

## PY 201 General Physics I

Fall 2007

**INSTRUCTOR:** John U. Free

### CLASS SCHEDULE

- Wednesday Sept. 5 - 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. 7 - Concepts of Motion  
read: chapter 1, sections 4, 5, 6, and 7
- Monday Sept. 10 - Motion in One Dimension - Linear Motion  
read: chapter 1, sections 8 and 9; chapter 2, sections 1, 2, and 3
- Wednesday Sept. 12 - Motion and Differential Calculus  
read: chapter 2, sections 4, 5, and 8  
Maple tutorial [www.ncsu.edu/felder-public/tutorials/maple1.htm](http://www.ncsu.edu/felder-public/tutorials/maple1.htm)
- Thursday/Friday - Lab: Motion: Displacement, Velocity, and Acceleration*
- Friday Sept. 14 - Constant Acceleration: Free Fall  
read: chapter 2, sections 5, 6, and 7
- Monday Sept. 17 - Vectors  
read: chapter 3
- Wednesday Sept. 19 - Forces and Force Diagrams  
read: chapter 4, sections 1, 2, 3, 4
- Thursday/Monday - Lab: Constant Acceleration: Free Fall*
- Friday Sept. 21 - Force and Motion: Newton's Laws  
read: chapter 4, sections 5, 6, 7
- Monday Sept. 24 - Dynamics: Motion Along a Line  
read: chapter 5, section 1, 2, 3
- Wednesday Sept. 26 - Friction and Drag  
read: chapter 5, sections 4, 5, 6
- Thursday/Friday - Lab: Nonuniform Motion and Newton's Law*

- Friday Sept. 28 - Dynamics: Motion in a Plane  
read: chapter 6 sections 1, 2, 3, 4
- Sunday Sept. 30 **Review Session for Exam #1**
- Monday Oct. 1 - **Exam #1 covers material from Sept. 5 through Sept. 26**
- Wednesday Oct. 3 - Dynamics: Motion in a Circle  
read: chapter 7, sections 1, 2, 3
- Thursday/Friday - Lab: Projectile Motion*
- Friday Oct. 5 - Nonuniform Circular Motion  
read: chapter 7, sections 4, 5, 6
- Monday Oct. 8 - **Columbus Day -no class-**
- Wednesday Oct. 10 - Newton's Third Laws  
read: chapter 8, sections 1, 2, 3
- Thursday/Friday - Lab: Newton's Second Law and Friction*
- Friday Oct. 12 - Application of Newton's Laws  
read: chapter 8, sections 4, 5
- Monday Oct. 15 - Impulse and Momentum  
read: chapter 9, sections 1, 2, 3
- Wednesday Oct. 17 - Collisions  
Read: chapter 9, sections 4, 5, 6, 7
- Thursday/Friday - Lab: Work and Energy*
- Friday Oct. 19 - Energy  
read: chapter 10 sections 1, 2, 3
- Monday Oct. 22 - Energy Applications  
read: chapter 10, sections 4, 5, 6, 7
- Wednesday Oct. 24 - Work  
read: chapter 11, sections 1, 2, 3, 4
- Thursday/Friday - Lab: Collisions*
- Friday Oct. 26 - More Work  
read: chapter 11, sections 5, 6, 7, 8, 9
- Monday Oct. 29 - Newton's Theory of Gravity  
Read: chapter 12, sections 3, 4, 5, 6

- Wednesday Oct. 31 - Kinematics: Rotation of a Rigid Body  
read: chapter 13, sections 1, 2
- Thursday/Friday* - *Lab: Rotational Dynamics*
- Friday Nov. 2 - Dynamics: Rotation of a Rigid Body  
read: chapter 13, sections 3, 4, 5, 6
- Sunday Nov. 4 - **Review Session for Exam #2**
- Monday Nov. 5 - **Exam #2 covers material from Sep. 28 through Oct. 29**
- Wednesday Nov. 7 - Energy: Rotation of a Rigid Body  
read: chapter 13, sections 7, 8, 9, 10
- Thursday/Friday* - *Lab: Hook's Law and Harmonic Oscillator*
- Friday Nov. 9 - Simple Harmonic Motion  
read: chapter 14, sections 1, 2, 3, 4
- Monday Nov. 12 - Examples of Oscillations  
read: chapter 14, sections 5, 6, 7, 8
- Wednesday Nov. 14 - Macroscopic Description of Matter  
read: chapter 16, sections 1, 2, 3, 4
- Thursday/Friday* - *Lab: Make-up Lab*
- Friday Nov. 16 - Ideal Gas  
read: chapter 16, sections 5, 6
- Monday Nov. 19 - Heat and Work  
read: chapter 17, sections 1, 2, 3
- Wednesday Nov. 21 - **Thanksgiving Break**
- Monday Nov. 26 - First Law of Thermodynamics  
read: chapter 17, sections 4, 5, 6, 7
- Wednesday Nov. 28 - The Micro/Macro Connection  
read: chapter 18, sections 1, 2, 3
- Thursday/Friday* - *Lab: Ideal Gas Laws*
- Friday Nov. 30 - The Second Law of Thermodynamics  
read: chapter 18, sections 4, 5, 6
- Monday Dec. 3 - Heat Engines and Refrigerators  
read: chapter 19, sections 1, 2, 3, 4

Tuesday Dec. 4 - **Review for Exam #3**

Wednesday Dec. 5 - **Exam #3** covers material from Oct. 31 through Dec. 3

*Thursday/Friday* - *No lab this week*

Friday Dec. 7 - Entropy  
read: chapter 19, sections 5, 6

Monday Dec. 10 - **Review**

Tuesday Dec. 11 - **Finals Start at noon**

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