

Lecturer: Dr. Foudil Latioui	
Syllabus – Physics 205A	

Office Hours: MWF: 10-11am; TR: 11-12 @ Nkrs-473
 Phone: 618-453-2048; Email: flatioui@siu.edu

Meetings: Lecture- MWF 9:00-9:50am @ Nkrs440
Texts: Textbook = *Physics for scientists & Engineers* 9th Ed. Serway

Course Description: PHY205A is the first sequence of Calculus based physics. We will investigate nature under two aspects: (1) particle model where we analyze motion using Newton's laws (vectors form) then using the laws of conservation (scalar form) (2) wave aspect model, we will use sound as an example of oscillatory motion. The primary goal of this course is to develop a firm understanding of the mechanical universe with emphasis on analytic and problem solving skills beyond concepts where Calculus is the main vehicle to analysis.

Exams, Quizzes and Home-works:

- There will be Three, 50 min Exams, and One comprehensive final.
- There will be Four, Quizzes:
 - Two quizzes online and Two in class
- A set of homework problems will be posted online weekly
- There will be a **recorded vote after** each **chapter**
- Make up exams will only be arranged for documented absence.

Grading Scheme

Categories	Weights	
Quizzes	3x4%=12%	<ul style="list-style-type: none"> • I will drop the lowest grade of HW, quizzes & Two Votes • Will not drop exams • Final is comprehensive
Homework	15%	
Exams	3 x 12% = 36%	
Vote	12%	
Final	25%	

Grading Scale

A=85.0-100.	B=75.0-84.9	C=65.0-74.9
D=50.0-64.9	F=0-49.9	
The final grade will be rounded off to the nearest 1/10 th		

Tentative Schedule Fall 2013

Week of:	Exams	Chapter #:	Quiz #:	Site
Aug. 19 th		02: Kinematics 1D		
Aug. 26 th		03: Vectors	Qz 1	Online
Sept. 2 nd		September 2nd, Labor Day		
Sept. 9 th	Exam I	05: The Laws of Motion		
Sept. 16 th		06: Circular Motion		
Sept. 23 rd		07: Energy of a system		
Sept. 30 th		08: Conservation of energy	Qz 2	In Class
Oct. 7 th		09: Linear Momentum		
		Fall Break: Oct. 12th – Oct. 15th		
Oct. 14 th	Exam II	10: Rotation of rigid objects		
Oct. 21 st		11: Angular Momentum		
Oct. 28 th		13: Universal Gravitation	Qz 3	Online
Nov. 4 th		14 : Fluid Mechanics		
Nov. 11 th		Monday 11th, Veteran Day		
Nov. 18 th	Exam III	16 : Wave Motion		
Nov. 25 th		17: Sound waves		
		Thanks giving: Nov.27th – Dec. 1st		
Dec. 2 nd		17: Standing Waves	Qz 4	In class
Dec. 9 th	Final Exam	Wed. Dec. 11th : from 7:50 pm to 9:50pm @ N 440		

Course Structure

- Lecture will be a combination of PowerPoint Presentation and on board derivations and illustrations. There will be a **non-recorded** vote after each lecture. You must have your **iClicker**
- Occasionally, we will have live-demos or simulations.
- To practice the concepts, we will go over key examples.
- Explore the student web site at: www.wiley.com/college/cutnell .
- You will find plenty of opportunities to practice regular course questions and review quizzes for the MCAT exam.

D2L	https://online.siu.edu/
SIU policy	http://policies.siuc.edu/policies/conduct.html

EMERGENCY PROCEDURES

Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT's website at www.bert.siu.edu, Department of Safety's website www.dps.siu.edu (disaster drop down) and in Emergency Response Guideline pamphlet. Know how to respond to each type of emergency. Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.

Make-up assignments will only be given for documented valid reasons:

- Religious Observance;
- Military Service;
- Bereavement (only members of the immediate family);
- Official University business;
- Properly documented medical reason that prevents you from taking the test. A letter from the doctor treating you is proper documentation; a note from student health services is not.
- Jury duty or appearance in court (properly documented)

In any case in which an absence will occur, you need to use the proper University form (Undergraduate Student Absence Form For University-Approved Activities) to request an accommodation from the instructor. This form must be presented to the instructor before the absence occurs (except in the medical emergency situation).