


Lecturer: Dr. Foudil Latioui	
Syllabus – Physics 205B	

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

Meetings: Lecture- TR 9:35-10:50am @ Nkrs440
Texts: Textbook = *Physics for Scientists & Engineers* 9th Ed. Serway

Course Description: PHY205B is a second sequence of Calculus based physics. We will cover the fundamentals of electromagnetism then, light with its all aspects: ray model & wave model. The goal of this course is to develop an overall understanding of the laws of electromagnetism & their applications. We will emphasize problem-solving methodologies and demonstrate the role of physics in science & engineering.

Exams, Quizzes and Home-works:

- There will be *Three*, 75 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. 29 th		23:Electric Field		
Aug. 26 th		24:Gauss's Law	Quiz 1	Online
Sept. 2 nd		September 2nd, Labor Day		
		25: Electric Potential		
Sept. 9 th		26: Capacitance & Dielectrics		
Sept. 16 th	Exam I	27: Current & Resistance		
Sept. 23 th		28: Direct current Circuit		
Sept. 30 th		29: Magnetic Field	Quiz 2	In Class
Oct. 7 th		Fall Break: Oct. 12th – Oct. 15th		
		30: Sources of Magnetic Field		
Oct. 14 th		31: Faraday's Law		
Oct. 21 st		32: Inductance		
Oct. 28 th	Exam II	33: Alternating current Circuits		
Nov. 4 th		34: Electromagnetic Waves		
Nov. 11 th		Monday, Nov. 11th Veterans Day		
		35: Ray Optics	Quiz 3	Online
Nov. 18 th		36: Image Formation		
		Thanks giving: Nov. 27th & Dec. 1st		
Nov. 25 th	Exam III	37: Wave Optics		
Dec. 2 nd		38: Diffraction Patterns	Quiz 4	In Class
Dec. 9 th	Final Exam	Thursday, Dec.1 2th : from 10:10 am - 12:10pm@ N440		

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.
- There will be a discussion session every week.

D2L	https://online.siu.edu/
SIU policy	http://policies.siu.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).