

Lecturer: Dr. Foudil Latioui

Syllabus – Physics 203B



**Southern**  
Illinois University  
**Carbondale**

Office Hours: MTWR 10-11 @ Nkrs-473

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**Meetings:** Lecture- MTWRF 1:20 - 2:20 pm @ Nkrs440

**Texts:** Textbook = *College Physics* 8<sup>th</sup> Ed. Cutnell & Johnson

**Course Description:** PHY203B is a second sequence of an Algebra based physics course. We will cover the fundamentals of electromagnetism. We will study ray and wave models of light. We will introduce special relativity as an insight into modern physics. The goal of this course is to develop an overall understanding of electromagnetism and to discuss the wave aspect of nature.

**Exams, Quizzes and Home-works:**

- There will be Three, 50 min Exams, and One comprehensive final.
- There will be Four, Quizzes:
  - Two quizzes online & 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 be arranged for documented absence only

**Grading Scheme**

Categories	Weights	
Quizzes	3x4%=12%	<ul style="list-style-type: none"> <li>• I will drop the lowest grade of HW, Quizzes &amp; Two Votes</li> <li>• Will not drop Exams</li> <li>• Final is comprehensive</li> </ul>
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<sup>th</sup>

**Tentative Schedule Summer 2013**

Week of:	Exams	Chapter #:	Quiz #:	Site
Jun. 10 <sup>th</sup>		18: Electric force & field		
		19: Electric Potential		
Jun. 17 <sup>th</sup>	Exam I	20: Electric circuits	Quiz 1	Online
		21: Magnetic force & field		
Jun. 24 <sup>th</sup>		22: Electromagnetic Induction		
		22: Electromagnetic Induction		
Jul. 01 <sup>nd</sup>		24: Electromagnetic waves	Quiz 2	In Class
		<b>Thursday July, 04<sup>th</sup> is a Holiday ( no class)</b>		
Jul. 08 <sup>th</sup>	Exam II	25: The reflection of light		
		26: The refraction of light		
Jul. 15 <sup>th</sup>		27: Interference of light	Quiz 3	Online
		27: Interference of light		
Jul. 22 <sup>rd</sup>	Exam III	28: Theory of Relativity		
		28: Theory of Relativity	Quiz 4	In Class
Aug. 29 <sup>th</sup>	Final Exam	<b>Thursday, August 1<sup>st</sup> : 4:00pm – 5:50pm</b>		

**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 iCliket**)
- 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](http://www.wiley.com/college/cutnell)
- You will find plenty of opportunities to practice regular course questions and review quizzes for the MCAT exam.
- All resources are under <https://online.siu.edu/>

## **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](http://www.bert.siu.edu), Department of Safety's website [www.dps.siu.edu](http://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).