Phys 205B - University Physics
(Electromagnetism)

Term: Spring 2016

Time/Location: T/R 9:35-10:50 AM, Neckers 440

Instructor: Dr. Eric Chitambar, (Office: Neckers 480, Email: echitamb@siu.edu)

Office Hours: T/R 8:00 AM - 9:30 AM; T/R 11:00 AM - 12:30 PM

Course Website: The course has a Desire2Learn website. Announcements and homework deadlines will be posted there.

Primary Text: Physics for Scientists and Engineers by R. Seway and J. Jewett

Grading: The grading for the course breaks down as follows:

- Homework - 30%
- Exams - ~16.7% each (x 3)
- Final Exam - 20%

Homework will be typically due every Thursday before the start of the class. No late homework will be accepted without advance permission. All homework assignments can be found at http://webassign.net. The class key is: siuc 2816 5583. *** You must complete the first assignment, titled `205B Assessment," by 9:35 AM on Thursday, Jan. 21. This will be graded on effort and not correctness.

Topics Covered in this Course:

1. Electric Fields (Chpt. 23)
2. Gauss's Law (Chpt. 24)
3. Electric Potential (Chpt. 25)
4. Capacitance and Dielectrics (Chpt. 26)
5. Current and Resistance (Chpt. 27)
6. Direct-Current Circuits (Chpt. 28)
7. Magnetic Fields (Chpt. 29)
8. Sources of the Magnetic Field (Chpt. 30)
9. Faraday's Law (Chpt. 31)
10. Inductance (Chpt. 32)

11. Alternating-Current Circuits (Chpt. 33)

12. Electromagnetic Waves (Chpt. 34)

13. Relativity (Chpt. 39)
SAFETY AWARENESS FACTS AND EDUCATION

Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://safe.siu.edu

SALUKI CARES

The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. For Information on Saluki Cares: (618) 453-5714, or siucares@siu.edu, http://salukicares.siu.edu/index.html

EMERGENCY PROCEDURES

Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. We ask that you become familiar with the SIU Emergency Response Plan and Building Emergency Response Team (BERT) programs. 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 at www.dps.siu.edu (disaster drop down) and the Emergency Response Guideline pamphlet. 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.

INCLUSIVE EXCELLENCE

SIU contains people from all walks of life, from many different cultures and subcultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ is an important part of education as well as an essential preparation for any career. For more information please visit: http://www.inclusiveexcellence.siu.edu/

LEARNING AND SUPPORT SERVICES

Help is within reach. Learning support services offers free tutoring on campus and math labs. To find more information please visit the Center for Learning and Support Services website:

Tutoring: http://tutoring.siu.edu/  
Math Labs http://math.siu.edu/courses/course-help.php

WRITING CENTER

The Writing Center offers free tutoring services to all SIU students and faculty. To find a Center or Schedule an appointment please visit http://write.siu.edu/

AFFIRMATIVE ACTION & EQUAL OPPORTUNITY

Our office's main focus is to ensure that the university complies with federal and state equity policies and handles reporting and investigating of discrimination cases. For more information visit: http://diversity.siu.edu/

Additional Resources Available:

SALUKINET: https://salukinet.siu.edu/cp/home/displaylogin

ADVISEMENT: http://advisement.siu.edu/

PROVOST & VICE CHANCELLOR: http://pvcaa.siu.edu/

SIU ONLINE: http://online.siu.edu/