

INSTRUCTOR: Richard West
OFFICE: Neckers 476
E-MAIL: rdwest@siu.edu
OFFICE HOURS: M10-1PM, TR12-1:30pm

REQUIREMENTS:

1. Scientific calculator recommended.
2. Attendance is mandatory.

ATTENDANCE:

Attendance for this course is mandatory. Since there are no make-up labs, you must attend **every** lab session. Allowed absences are given for the following documented reasons only: (i) Religious observance; (ii) Military service; (iii) Bereavement (i.e., death in your immediate family); (iv) Official university business (properly documented using appropriate forms from an athletic or academic advisor; or (v) a properly documented medical reason. Note: **A slip stating that the student visited the Student Health Center does not fulfill this requirement.** Documentation that you were hospitalized or an official doctor's note is required.

LAB REPORTS:

1. Late reports **will not be accepted.**
2. There will be **no make-up labs** allowed.
3. The report has to include:
 - a) *Title section*
 - b) *Introduction (Purpose and theory of the experiment)*
 - c) *Experimental (apparatus and method)*
 - d) *Results: include data sheets, calculations, data tables, and graphs*
 - e) *Error analysis: includes error calculations and a discussion of the specific source of error*
 - f) *Discussion and conclusion*
 - g) *Answers to questions*
 - h) *References (**THEY HAVE TO BE CITED THROUGHOUT YOUR REPORT**)*

PRE-LAB QUIZZES:

You should prepare for each lab **ahead of time** by reading and studying the lab manual. As a result, each week at the beginning of the lab period, you will be given a pre-lab quiz. The purpose of this pre-quiz is to determine that you have read the lab manual ahead of time and have an idea what is going to be covered in that week's lab.

There will be **no make-up quizzes**.

REGULAR QUIZZES:

Regular quizzes will be given **every other week**, which will cover material from the previous two labs.

LAB SCHEDULE:

LAB SCHEDULE: (****This is tentative and subject to change***)

Week	Date	Activities	Topic
1	08/21		Orientation
2	08/28		Michelson interferometer
3	09/04		Charge-to-Mass ratio of the electron (e/m)
4	09/11	Quiz 1	Photoelectric effect and Planck's constant
5	09/18		Electron diffraction
6	09/25	Quiz 2	Franck-Hertz experiment
7	10/02		The Faraday Effect
8	10/09	Quiz 3	High Temperature Superconductors
9	10/16		Temperature Dependence of the Ohmic Resistance of Two Different Materials
10	10/23	Quiz 4	Determination of Gamma Ray Spectra with a Scintillation Detector
11	10/30		Gamma Ray Absorption in Lead and Aluminum

12	11/06	Quiz 5	TBA
13	11/13		TBA
14	11/20		TBA
15	11/27		Thanksgiving Vacation
16	12/04		FINAL EXAM

FINAL EXAM:

You will have a comprehensive final exam. The final exam will be comprised of elements from the pre-labs, quizzes, and lab questions, as well as the theories the experiments are meant to demonstrate. Anything that has been covered in the course will be considered fair game.

METHOD OF EVALUATION:

Reports	65 %
Pre-Lab Quizzes	10 %
Regular quizzes	15 %
Final Exam	10 %

GRADING SCALE:

90% - 100%	A
80% – 89.9%	B
70% – 79.9%	C
51% – 69.9%	D
Below 50.0%	F

NOTES:

1. If you should drop PHYS 305 at some point during the semester, you must also drop this lab course.
2. You will be notified of any new information concerning this course.
3. If you have any questions or comments feel free to see me during my office hours to discuss them.

"We emphasize student achievement and success because achievement and success are essential if we are to shape future leaders and transform lives"

IMPORTANT DATES

Last day to add a class (without instructor permission)..... **8/30/2013**
Last day to withdraw completely and receive a 100% refund.....**9/01/2013**
Last day to drop a course using SalukiNet.....**10/27/2013**
Last day to file diploma application (for name to appear in Fall Commencement program).....**11/01/2013**
Final examinations.....**12/9 – 12/13/2013**

Note: For outreach, internet, and short course drop/add dates, visit Registrar's Academic webpage <http://registrar.siu.edu/>

FALL SEMESTER HOLIDAYS

Labor Day 09/02/2013
Fall Break 10/12—10/15/2013
Thanksgiving Break 11/27—12/1/2013

WITHDRAWAL POLICY ~ Undergraduate only

Students who officially register for a session may not withdraw merely by the stopping of attendance. An official withdrawal form needs to be initiated by the student and processed by the University. For the proper procedures to follow when dropping courses and when dropping from the University, please visit <http://registrar.siu.edu/pdf/ugradcatalog1314.pdf>

INCOMPLETE POLICY~ Undergraduate only

An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. An INC must be changed to a completed grade within one semester following the term in which the course was taken, or graduation, whichever occurs first. Should the student fail to complete the course within the time period designated, that is, by no later than the end of the semester following the term in which the course was taken, or graduation, whichever occurs first, the incomplete will be converted to a grade of F and the grade will be computed in the student's grade point average. For More information please visit <http://registrar.siu.edu/grades/incomplete.html>

REPEAT POLICY

An undergraduate student may, for the purpose of raising a grade, enroll in a course for credit no more than two times (two total enrollments) unless otherwise noted in the course description. For students receiving a letter grade of A,B,C,D, or F, the course repetition must occur at Southern Illinois University Carbondale. Only the most recent (last) grade will be calculated in the overall GPA and count toward hours earned. See full policy at <http://registrar.siu.edu/pdf/ugradcatalog1314.pdf>

GRADUATE POLICIES

Graduate policies often vary from Undergraduate policies. To view the applicable policies for graduate students, please visit <http://gradschool.siu.edu/about-us/grad-catalog/index.html>

DISABILITY POLICY

Disability Support Services provides the required academic and programmatic support services to students with permanent and temporary disabilities. DSS provides centralized coordination and referral services. To utilize DSS services, students must come to the disability office to open cases. The process involves interviews, reviews of student-supplied documentation, and completing Disability Accommodation Agreements. <http://www.siu.edu/dss>

STUDENT CONDUCT CODE

http://policies.siu.edu/other_policies/chapter3/conduct.html

Fall 2013 R.O'Rourke

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://salukicare.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)** 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. 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 sub-cultures, 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 an essential preparation for any career.

MORRIS LIBRARY HOURS

<http://www.lib.siu.edu/about>

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 Center for Learning and Support Services website for:

Tutoring : <http://tutoring.siu.edu/>

Math Labs http://tutoring.siu.edu/math_tutoring/index.html

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/>