

SYLLABUS
Physics 101: *Physics that Changed the World*
Instructor: April Hendley
Fall 2013

I. TIME/PLACE: 11:00 a.m.-12:15 p.m. TR Neckers 440 (Lecture Hall).

II. CONTACT INFORMATION for Ms. Hendley

Office: Neckers 462

Phone: 618-453-2272

Email: ahendley@siu.edu

Office Hours: TBA

Other times: By Appointment

III. REQUIRED RESOURCES

TEXTBOOK: *Physics Concepts and Connections*, 5th edition, Art Hobson. It is on reserve in the library.

LAB MANUAL: Physics 101 Lab Manual, William Atkinson. This is available for **Download (PDF) from SIU Online**.

SYLLABUS: This syllabus is available for download on SIU Online.

IV. COURSE OBJECTIVES:

Main Course Objectives:

- Learn about the fundamental laws and principles of Physics.
- Relate these ideas to the physical world around us and to the world of ideas in which we live.
- Understand how the scientific method operates.
- Develop familiarity with conducting simple experiments in the lab portion.

V. COURSE STRUCTURE

There are **TWO** lecture groups in this course.

Lecture 1 involves lab sections # 1, 2, 3, 4, and 5

Lecture 2 involves lab sections # 6, 7, 8, 9, and 10

NOTE: The lectures, exams, homework assignments and grading in each of these groups is structured differently.

Lectures:

Lectures will normally be in PowerPoint Presentation format.

Expected behavior during lectures:

- It is not acceptable to talk, make noise or to otherwise disrupt the class, thus preventing other students from hearing the lecture.
- Cell phones should be turned off during lecture.

- Aside from not contributing much to your learning this course, it is very impolite to read the Daily Egyptian during class; please do not do it.
If you need to talk, use your cell or read the paper, please step out of the lecture hall as quietly as possible.

Laboratory:

There are a total of six laboratories in this course.
The Lab class meets in Neckers 116.
Of the six labs, your highest five will count for the grade.
One lab, your lowest, is dropped.
Since we are dropping the lowest lab grade, there are NO MAKE UP LABS.

For the purpose of the laboratories the 101 students are divided into two groups:
Group 1 is constituted by sections 1, 2, 3, 4, 5, 6, 7, and 9.
Group 2 is constituted by sections 8 and 10.
The first week of classes there are no Laboratories.
The second week of the semester Group 1 (sections 1, 2, 3, 4, 5, 6, 7, and 9) will have their first lab.
The third week of the semester Group 2 (sections 8 and 10) will have their first lab.
From this point on, labs alternate every week. Each section has a lab every other week (except for the weeks of Fall Break and Thanksgiving).

Home Work:

Homework will be assigned approximately every one or two weeks. Homework will be collected in class.
Late homework are not accepted because the solutions will be posted shortly after the homework are due.

Exams:

There will be four full class-long exams, which will be announced a week in advance, in class.
You will get to drop your lowest exam grade, hence there will be NO MAKE UP EXAMS, unless your absence from the exam is properly authorized (see Missed Exam Policy).

Missed Exam Policy

Valid reasons for missing an Exam **are limited to properly documented:**

- Religious Observance;
- Military Duty;
- Bereavement (only members of the immediate family);
- Official University business;
- Jury Duty or Court Appearance;
- Properly documented medical reason (Doctor's certificate stating that the student was incapable of attending the exam; notes from the Student Health Services that the student was there at the time are **not** sufficient).

It is the student's responsibility to use the appropriate University form for Excused Absences to request accommodation from the instructor in case an exam is missed. Except in cases of medical emergency, this University form needs to be given to the instructor before the absence occurs.

Final Exam:

The final exam is **comprehensive**.

Final Exam will be on Monday Dec. 9 from 12:50 to 2:50 pm.

VI. GRADES

Breakdown: Laboratories: 25%
 Homework: 17.5 %
 Exams: 40%
 Final Exam: 17.5%

TENTATIVE Grade Scale: A: 85-100
 B: 75-84
 C: 65-74
 D: 51-64
 F: 0-50

VII. ACADEMIC DISHONESTY IN PHYS 101

This is to inform you of the policy regarding academic dishonesty in PHYS 101. Any individual found cheating on any exam, quiz, or assignment will be failed in the course. The possession of any *cheat-sheet* during the final will be considered cheating and treated as such. Plagiarizing will be considered cheating. If another individual takes the quiz or final for you, then both will be reported for cheating. A report will be made to the proper authority for further disciplinary action including possible suspension from the university.

TENTATIVE SCHEDULE: We will follow this schedule as closely as possible. Note: The lab number may not correspond to the lab number in the lab manual.

Week	Lab #/Lab Group	Lecture Dates	Lecture Topic
1	No Lab	8/20	Astronomy
		8/22	Astronomy
2	Lab 1 Group 1	8/27	Astronomy
		8/29	Astronomy/Atoms
3	Lab 1 Group 2	9/3	Atoms
		9/5	Atoms
4	Lab 2 Group 1	9/10	Atoms/Math/Units/ Motion
		9/12	Review for Exam 1
5	Lab 2 Group 2	9/17	Exam 1
		9/19	Motion
6	Lab 3 Group 1	9/24	Motion/Forces
		9/26	Forces/Gravity
7	Lab 3 Group 2	10/1	Gravity/Energy
		10/3	Energy
8	Lab 4 Group 1	10/8	Energy/Thermo
		10/10	Review for Exam 2
9	No Lab	10/15	Fall Break
		10/17	Exam 2
10	Lab 4 Group 2	10/22	Thermo/E&M
		10/24	E&M/Waves
11	Lab 5 Group 1	10/29	Waves/Light/Matter
		10/31	Light/Matter/Relativity
12	Lab 5 Group 2	11/5	Review for Exam 3
		11/7	Exam 3
13	Lab 6 Group 1	11/12	Relativity/Quantum
		11/14	Quantum
14	Lab 6 Group 2	11/19	Quantum/Nuclear
		11/21	Review for Exam 4
15	No Lab	11/26	Exam 4
		11/28	Thanksgiving Break
16	No Lab	12/3	Nuclear
		12/5	Review for Final

"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

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/>