

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

I. TIME/PLACE: 11:00 a.m.-12:00 p.m. MTWR 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 lab sections in this lecture: 201, 202.

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 seven laboratories in this course.

The lab class meets in Neckers 116.

Of the seven labs, your highest six 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**.

There **WILL** be lab the first week of class. There will be lab every week.

If you are in section 201, please see me concerning the date of Lab 4.

Home Work:

Homework will be assigned roughly once a week. 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 Thursday Aug. 1 from 2:00 p.m. to 3:50 p.m. in Neckers 440.

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.

VIII. 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.

TENTATIVE SCHEDULE: We will follow this schedule as closely as possible, but the dates for the topics, exams, and reviews are subject to change.

Week	Lab #	Lecture Dates	Lecture Topic
1	Lab 1	6/10	Astronomy
		6/11	Astronomy
		6/12	Astronomy
		6/13	Astronomy/Atoms
2	Lab 2	6/17	Atoms
		6/18	Atoms
		6/19	Math/Units
		6/20	Review for Exam 1
3	Lab 3	6/24	Exam 1
		6/25	Motion
		6/26	Motion/Forces
		6/27	Forces/Gravity
4	Lab 4 (see note for section 201 above)	7/1	Gravity
		7/2	Gravity/Energy
		7/3	Energy/Work/Power
		7/4	NO CLASS
5	Lab 5	7/8	Review for Exam 2
		7/9	Exam 2
		7/10	Thermo/EM
		7/11	EM
6	Lab 6	7/15	Waves
		7/16	Light/Matter
		7/17	Review for Exam 3
		7/18	Exam 3
7	Lab 7	7/22	Relativity
		7/23	Relativity/Quantum
		7/24	Quantum
		7/25	Quantum/Nuclear
8	No Lab	7/29	Review for Exam 4
		7/30	Exam 4
		7/31	Review for Final
		8/1	Final (see time listed above)