SYLLABUS
Physics 101: Physics that Changed the World
Dr. Richard West
Fall 2015

I. **TIME/PLACE** Delivered and completed entirely on SIU Online (online.siu.edu) during the Fall 2015 semester. Please see the Syllabus Attachment - Fall 2015 for important information and dates.

II. **REQUIRED RESOURCES**

**TEXTBOOK:** Conceptual Physics, 12th ed., Hewitt.

*Option 1:* eText - Conceptual Physics, Books a la Carte Plus

MasteringPhysics with eText -- Access Card Package, 12/E

ISBN 9780321940667

*Option 2:* Traditional Text - Text + Modified MasteringPhysics

ISBN 9780133857412

**INTERNET CONNECTION** and a computer with minimum requirements below: http://www.pearsonmylabandmastering.com/northamerica/educators/mm-support/system-requirements/

III. **COURSE OBJECTIVES**

The student will be able to comprehend the fundamental laws and principles of physics upon completion of this course. The students will be able to relate these laws/principles to the modern technological world. In learning the scientific method through virtual laboratories and better problem solving techniques via pointed homework, students will be able to read and translate physical data verbally and in the form of graphs or formulas. Ideally, the students will recognize the influence of science and technology on the world around them and even political and philosophical thought.

IV. **COURSE STRUCTURE**

The entire course is delivered through SIU Online (D2L). The course is divided into learning modules. These modules come with reading assignments. Notes will normally be provided in PDF format. However, certain concepts will require explanation, using occasional audio and video. Materials will be posted online throughout the semester.

Laboratory simulations contain interactive content. The labs overlap the concepts being learned or will be accompanied by supplemental content. Questions are asked covering your observations and results. Your questions should be answered - *in your own words* - typed in Word, and the Word document submitted to Dropbox on SIU Online (D2L) in Word format. There will be a total of seven labs, and the six best will be counted towards the final grade. No late laboratory reports will be accepted.
Homework assignments will be assigned for each module. These assignments will be delivered using Pearson Mastering. Homework assignments are given throughout the course. Due dates are posted in Pearson Mastering. No late homework will be accepted.

There are quizzes covering each module. These quizzes will be taken at the end of each learning module. The quizzes will be written in a manner that resembles the exams. There are seven quizzes that will be administered on SIU Online (D2L) and the six best will be counted towards the final grade. Each quiz will consist of 1 attempt and will only be open for a limited time. Quiz 1, however, will allow for 2 attempts with only the highest grade taken, in an effort to allow you some extra practice. Please do not start the quiz unless you are completely ready. They are timed. There are no late or make-up quizzes.

The term paper must be your own creation. It should be fun, covering a topic of your choosing. Specific guidelines will be posted on your course website. In general, the paper should be typed in Word format, about 3 pages, double spaced, with citations.

The midterm exam must be proctored.

The final exam is comprehensive and must be proctored.

V. GRADES

(a) Grade Breakdown:
- Virtual Labs: 25%
- Homework: 12.5%
- Quizzes: 12.5%
- Term Paper: 10%
- Midterm: 18%
- Final exam: 22%

(b) Grade Scale:
- A: 85-100%
- B: 75-84%
- C: 65-74%
- D: 55-64%
- F: 0-54%

VI. THE COURSE WEBSITE – https://online.siu.edu/

You must go to the above website, sign in, and follow the link to PHYS 101. On the site you can get the following:
(1) Notes
(2) Important announcements and due dates
(3) The syllabus attachment
(4) Homeworks through Pearson Mastering
(5) The virtual laboratories
(6) Access to quizzes and exams
(7) Grades!
VII. CONTACT

Dr. Richard West
Email: rdwest@siu.edu

TENTATIVE SCHEDULE OVERVIEW - PHYS 101 - Online
See website (https://online.siu.edu/) for dates

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