



## Physics 1307 General Physics Fall 2016 Course Information

**Course Web page:** <http://edugen.wileyplus.com/edugen/class/cls496461/>

*We use in this course an online system - WileyPLUS - for distributing homework, grading homework, and providing feedback on your performance in the course. It is your responsibility to master the usage of the system, as it is the primary way in which you will submit your homework and self-assess your performance in the class. If you have any problems, contact the class instructor IMMEDIATELY.*

**Lectures:** M-F 11:00 am-12:20 pm, in Room 158 FS Bldg

- **Lecturer:** Professor Roberto Vega
  - Office: Room 105 Fondren Science
  - Office hours: Tuesdays and Wednesdays 12:20-2:00 pm, or by appointment
  - Phone: (214) 768-2498
  - Fax: (214) 768-4095
  - E-mail: [rvega@smu.edu](mailto:rvega@smu.edu)
- **Suggested Textbooks:** Halliday, Resnick, and Walker, “Fundamentals of Physics”; “College Physics”, OpenStax College, free download [here](#). Timothy McKay, “Physics for the Life Sciences”, free download [here](#).
- **Laboratory:** Complete information can be [here](#).
- **Exam Schedule:** Exam I: 15 Sept 2016, Exam II: 13 Oct 2016, Exam III: 3 Nov 2016, Exam IV 1 Dec 2016, Final Exam: (as per official date)
- **Help Sessions:** TBA
- **Grading:** Homework (15%), Class Work which include in class exercises, reading and pop quizzes (25%), three partial exams (30%), and final exam (30%). Grading policy in details can be found at this [link](#).
- **Objectives:** Upon successful completion of this course, students will be able to:
  - 1) demonstrate basic facility with the methods and approaches of scientific inquiry and problem-solving

- 2) explain how the concepts and findings of physics shape our world
- 3) solve short and extended problems in introductory mechanics

- **Student Learning Outcomes.**

*Upon successful completion of this course, students will meet the expectations from the Quantitative Reasoning student learning outcomes:*

- Students will be able to develop quantitative models appropriate to problems in Physics.
- Students will be able to assess the strengths and limitations of quantitative models and methods used in Physics.
- Students will be able to apply symbolic systems of representation.
- Students will be able to collect, organize and analyze data from a variety of sources.  
Students will be able to formulate structured and logical arguments.
- Students will be able to test hypotheses and make recommendations or predictions based on results.
- students will be able to communicate and represent quantitative information or results numerically, symbolically, aurally, visually, verbally, or in writing.

*Students will also meet these expectations from Pure and Applied Sciences student learning outcomes:*

Students will be able to demonstrate basic facility with the methods and approaches of scientific inquiry and problem solving.

Students will be able to explain how the concepts and findings of science or technology in general, or of particular sciences or technologies shape our world.

*How this course achieves these Student Learning Outcomes:*

The above objectives will be achieved through: participation in in-class discussion of lecture and reading materials; discussion with the lead instructor(s) of reading and lecture during regular office hours; successful completion of routine homework assignments; successful completion of in-class quizzes and several in-class examinations. In addition, students are expected to show proficiency in the application of these ideas through a parallel laboratory course.

## **Disability Accommodations**

- **Disability Accommodations:** Students needing academic accommodations for a disability must first be registered with Disability Accommodations & Success Strategies (DASS) to verify the disability and to establish eligibility for accommodations. Students may call 214-768-1470 or visit <http://www.smu.edu/alec/dass.asp> to begin the process. Once registered, students should then schedule an appointment with the professor to make appropriate arrangements.
- **Religious Observance:** Religiously observant students wishing to be absent on holidays that require missing class should notify their professors in writing at the beginning of the semester, and should discuss with them, in advance, acceptable ways of making up any work missed because of the absence. (See University Policy No. 1.9.)
- **Excused Absences for University Extracurricular Activities:** Students participating in an officially sanctioned, scheduled University extracurricular activity should be given the opportunity to make up class assignments or other graded assignments missed as a result of their participation. It is the responsibility of the student to make arrangements with the instructor prior to any missed scheduled examination or other missed assignment for making up the work. (University Undergraduate Catalogue)

**Anonymous comments or gripes** are welcomed.

- **Helpful Websites**
  - [Study tips](#) for introductory-physics students
  - The [Hecht Companion Site](#) is designed for Hecht's algebra-based text, but the site is also [useful](#) for users of his calculus-based text
  - In [the Physics Classroom](#), you can explore various physical phenomena cleverly illustrated using cool animations
  - Learn [Cockpit Physics](#) at the U.S. Air Force Academy. Strap on your jet and [takeoff](#)
  - [Links](#) to [cool](#) mechanics simulations
  - Online biography of [Sir Isaac Newton](#) (1643-1727)