

## Phy 125 course information Fall 2015

Physics 125 is a course in Classical Physics intended for students at the freshman and sophomore level. The course provides an introduction to classical mechanics through rotational motion, rigid body equilibrium and gravitation. This material is covered in chapters 1 through 14 in Katz, the required text. The course is intended for majors in Physics as well as other sciences, mathematics and engineering. The course consists of three lectures and a one hour recitation per week. Simultaneous enrollment in the Laboratory course Physics 133 is **highly recommended**.

### 1. Required Material:

Textbook: "Physics for Scientists and Engineers: Foundations and Connections" by Debora Katz. Loose Leaf edition **strongly** recommended.  
Scientific Calculator [with trig functions] for homework problems, recitation quizzes and exams.  
Turning Technologies Clicker

### 2. Lecture: MWF 8:00-8:53 AM

Instructor: Linwood Lee, Office C-106, phone 632-8116  
email: [linwood.lee@stonybrook.edu](mailto:linwood.lee@stonybrook.edu)

Office hours: Mo, Tu, Th 10:00-11:30, and by appointment. Extra office hours will be announced each Monday in lecture.

**You are responsible for all announcements made in lecture**

**You should read the assigned text material before it is discussed in lecture.**

**There will be occasional "clicker" quizzes in lecture on covered material**

### 3. Homework: Every Monday a set of homework problems will be assigned in lecture and posted in the "Assignment" folder in Blackboard. These assignments must be handed in, by section, in the slots in room A-131 by noon the following Monday [Note: 10:00AM for R01]. The homework will be collected, selectively "graded" by the recitation instructor and returned in recitation. Homework solutions will be posted soon after they are due as Course Documents on Blackboard.

Homework in this course is essential practice each week in properly applying physics concepts to solving problems. The problems may or may not be long or involve numbers but will always require showing logical explanations for your results using labeled sketches and symbolic and/or numerical equations. The premises, logic, algebra, and arithmetic in your solutions must be convincing to your peers and instructors. Most students find they don't really understand a Physics concept until they have successfully used it in a problem. Certainly that is the best way to demonstrate your understanding and to do well in this course.

It is very important that you do the homework on time each week to make sure you have mastered each successive physics concept in the course before the next, perhaps more complicated, one is introduced. This course may seem, to some students, to move slowly at first. This will let you practice your math skills and learn to do physics problems rigorously to University standards before they get more difficult. **DO NOT GET BEHIND**. Do the homework carefully even if it seems easy or you already had it in High School. The later portions of the course will move more rapidly. Many students benefit from forming study groups in which you practice *explaining* solutions to each other, convincing your peers that you understand the material. You are encouraged to form such groups; consider it practice in convincing your instructors.

### 4. Recitation: The recitation provides an opportunity for informal discussion of all of

the course material and to go over the homework problems. The assigned homework will be collected and there will be occasional quizzes. **Attendance in recitation is mandatory.** Recitations will start Monday August 31.

5. **Exams:** There will be two midterm exams and a final exam on dates indicated on the exam schedule on Blackboard. Midterm exams will be given during the regular lecture hour at locations and times to be announced in lecture.

6. **Grade:** Your final course grade will be determined by weighting the various portions of the course as follows.

Midterms: 17.5% each

Final exam 35%

Recitation 20%

Lecture “clicker” participation 10%

7. **Help:** The course instructors will be available during office hours and by appointment for help with questions related to the homework problems and/or general understanding of the course material. **You are encouraged to come and ask questions; we are here to help you master the course material. ABOVE ALL do not get behind; it is very difficult to catch up in a Physics course.** We urge you to seek help at office hours as soon as you have any difficulty, not just before exams. Note especially that Prof. Lee has many office hours each week and welcomes students whenever his door is open. Help is also available most hours in the “Physics Help Room” A-129.

#### **DISABILITY INSTRUCTIONS**

If you have a physical, psychiatric/emotional, medical or learning disability that may impact on your ability to carry out assigned course work, I urge that you contact the staff in the Disability Support Services office [DSS], 632-6748/9. DSS will review your concerns and determine, with you, what accommodations are necessary and appropriate. All information and documentation of disability is confidential

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the website; <http://www.sunysb.edu/ehs/fire/disabilities.shtml>

#### **UNIVERSITY ACADEMIC INTEGRITY STATEMENT**

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person’s work as your own is always wrong. Any suspected instance of academic dishonesty will be reported to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at <http://www.stonybrook.edu/uaa/academicjudiciary/>

#### **CRITICAL INCIDENT MANAGEMENT**

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students’ ability to learn.