

**PHYS 1408 Principles of Physics II**  
**Laboratory Syllabus**  
**Fall 2016**  
**Texas Tech University**  
**Course Syllabus**

**Laboratory Instructor:** \_\_\_\_\_  
**Section:** \_\_\_\_\_

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**Section:** \_\_\_\_\_

**Laboratory Director:**

Dr. Keith West

Office: SC 116

Office Hours: 10:00–11:30 a.m. MW or by appointment..

Phone: 806-834-3651

Email: [keith.h.west@ttu.edu](mailto:keith.h.west@ttu.edu)

**Laboratory Manual:** The manual is available from the Society of Physics Students as a fundraiser and is not available in any bookstore. A schedule showing the hours SPS will be selling the manuals will be posted. The manual is \$25. **Students must purchase a lab manual before labs begin (the week of September 12). Students who do not have a lab manual will not be admitted to lab and due to most sections being full will not be allowed to make that lab up.**

**Meeting Place:** Science Building 130 or Science 104 **PHYS 1408 Labs meet in two different rooms this semester.** Please make sure you show up to the correct room.

Note: No food or drinks are allowed in the laboratory, including bottles and cups with lids.

**Laboratory homework:** Each week, a laboratory homework will be assigned. It will be turned in the following week at the beginning of the laboratory period. It is late after the beginning of the laboratory period and late laboratory homework will not be accepted. The laboratory homework will count as 35% of your laboratory grade.

**Participation:** Coming to class on time, not leaving early and being “on-task” when you are in the lab counts as part of your participation grade. Also, working any departmental assessments, which may include a general pre-test, post-test or other surveys and surveys to be done online outside of class, will count toward your participation grade. For all of these things, you will get full credit, if you do them, and points will be subtracted from your participation grade, if you do not do them. They will not be graded, except for completion. However, if they are not completed or are not taken seriously, you will have points taken off.

Obviously attendance is the most important part of participation. If you aren't here, you can't participate. Absences fall into two broad categories: expected absences and unexpected absences.

Expected Absences: These are absences that you know you will have in advance. They include but are not limited to university sponsored trips and events (athletic events, conferences, etc.), doctor/dentist appointments, court appearances (plaintiff, defendant, witness, juror), religious observances, and other things that require advanced planning. Please note: This includes the Engineering Job Fair.

University policy states that students are responsible for any work missed for university sponsored events. In the Physics Department, this means that a lab missed for a university sponsored event must be made up if possible. University policy also states that instructors must be notified in advance of absences due to university sponsored events. Instructors must also be notified in advance for absences due to religious observance.

Therefore the absence policy for expected absences of any sort is the following: **Students must make arrangements for a makeup lab and those arrangements must be made in advance of the absence.** The makeup can take place either before or after the absence, but the arrangements must be made in advance. Because many labs are at capacity and a few are over capacity, available seats are somewhat limited. **All arrangements for a makeup lab must be made through the Dr. West, the lab director. Your TA does not have the authority to approve a makeup lab.** The reason for this policy is to make sure there is space for you in the lab you attend for the makeup. Please email Dr. West; he will work with you to find a section that works with your schedule. He will also confirm the makeup and CC both your regular TA (to ensure the TA is aware of the makeup and won't count the absence against you) and the TA of the section you'll be attending for the makeup (to ensure that you are admitted to the lab). Please also note that the TA will not allow you to makeup the lab without prior approval from Dr. West. Make sure you receive confirmation from Dr. West that you have been approved for a makeup. There are roughly 2000 students in labs this semester, and it is possible for someone to fall through the cracks. Neither Dr. West nor you want that to happen.

Unexpected Absences: These are absences which occur when "life happens." They include but are not limited to illness, death of a family member or close friend, car accident (either directly involved or stuck in traffic if it's a major wreck), and other unexpected events. Dr. West understands that things can happen that are beyond your control. In the event something unexpected prevents you from attending class, please contact Dr. West as soon as you can. If possible he will help you find a section in which to makeup the absence. In the event you can't make up the lab, he may excuse it. Please be advised that being excused for unexpected absences is at Dr. West's discretion, and he may ask for documentation, such as a doctor's note, funeral program, police report, or other supporting material. **In the event of an unexpected absence, you have one week from the date of the absence to contact Dr. West. After that, the absence will be unexcused and the zero will count.**

Absences for the following reasons will not be excused under any circumstances: oversleeping, "I forgot", long weekends, family trips. Students who show up to lab without a lab manual will not be allowed to attend lab; in this case, a makeup may be allowed at Dr. West's discretion, provided there are lab sections with open seats remaining. (Don't count on it; most labs are at capacity.) If you are going to be absent for any reason not directly addressed above and wonder if the absence will be excused, please do not hesitate to contact Dr. West. He recognizes that occasionally a unique opportunity presents itself. The worst he will say is no, but sometimes he will excuse the absence.

Students are expected to arrive on time and be prepared to begin work when the lab starts. Please keep in mind that if someone is late, that person's group will have to catch that individual up.

This can result in the group not finishing the laboratory activity, and as a result everyone's grade suffers. Therefore, students arriving more than 10 minutes late will not be admitted to lab. Dr. West recognizes that from time to time things happen which can delay someone. If something occurred to prevent the student from arriving on time, a makeup lab without penalty can be arranged at Dr. West's discretion. Students who are late on a consistent basis will be given a warning to be on time. If that person continues to be late, he/she will not be admitted to lab and will not be allowed to make up that lab.

**Important Note About Out of Class Exams for Other Classes and SI Sessions:** Over the last few semesters, I have been approached by students wanting to make up a lab due to an instructor in another course scheduling an out of class exam after the semester starts at the time the student is scheduled to be in lab. **This is not an acceptable reason for missing lab and will not be excused nor will a makeup lab be approved.** We simply don't have the open seats to accommodate such requests. University policy requires out of class exams to be schedule before registration opens for that semester in order to prevent such conflicts. If an instructor schedules an out of class exam after the semester begins, that instructor must make accommodations in the event of schedule conflicts, not the instructor of the scheduled class. On a related note, SI sessions are considered optional, and absences due to attending an SI session will not be excused or made up.

Participation will count as 15% of your grade.

**Laboratory experiments:** The laboratory experiments are as listed in the laboratory manual, except that they may not always be worked in the same order as in the manual. Every effort will be made to keep the lab topic the same as is being covered in lecture that week or was covered in lecture the previous week, but please keep in mind that it will not always be possible to do so. Performing the experiment will count as 50% of your grade.

**Tentative list of laboratory experiments:**

Date	Activity
09/05-09/09	No lab
09/12-09/16	One Dimensional Motion Parts 1 & 2
09/19 – 09/23	Two-Dimensional and Projectile Motion
09/26 – 09/30	Vector Analysis
10/03 – 10/07	Force, Mass, and Acceleration
10/10 – 10/14	Work and Energy
10/17 – 10/21	Conservation of Linear Momentum
10/24 – 10/28	Rotational Dynamics
10/31 – 11/04	Statics and Torque
11/07 – 11/11	Gravitational Forces
11/14 – 11/18	Density and Buoyancy
11/21 – 11/25	Thanksgiving; no labs
11/28 – 12/02	Periodic Motion

**Grading:**

Laboratory write up	50%
Laboratory homework	35%
Participation	15%

## **Academic Integrity and Student Conduct:**

Students are expected to comply with all provisions in the Code of Student Conduct. This includes following reasonable instructions, such as those contained in the lab policies, and observing standards of academic integrity. If you aren't sure what that means, ask me. I'll be glad to explain and give examples. I would rather do that than deal with a possible violation of the Code. Students whose conduct may violate the Code for either behavioral reasons or academic dishonesty will be referred to the Office of Student Conduct. In the event of the Office of Student Conduct finds the student in violation of the Code, in addition to any University sanctions, an academic penalty up to and possibly including failing the lab portion of the class will be imposed.

[TTU OP 34.12](#) outlines grading policy as well as the definitions of scholastic dishonesty; all of which will be followed in all aspects of this course.

Excerpt: *"It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and high standard of integrity. The attempt of students to present as their own any work not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offenders liable to serious consequences, possibly suspension. 'Scholastic dishonesty' includes, but [is] not limited to, cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts and any act designed to give unfair academic advantage to the student [...]"*.

### **ADA Statement**

In compliance with the ADA, TTU OP 34.22 and TTU OP 10.08

*"Any student who, because of a disability, may require special arrangements in order to meet the course requirements should contact the instructor as possible to make necessary arrangements. Students must present appropriate verification from Student Disability Services during the instructor's office hours. Please note that instructors are not allowed to provide classroom accommodation to a student until appropriate verification from Student Disability Services has been provided. For additional information, please contact Student Disability Services office in 335 West Hall or call 806-742-2405."*

### **Religious Holiday**

Pursuant of TTU OP 34.19, a student who intends to observe a religious holy day should make that intention known, in writing, to the instructor prior to an absence. A student who is absent from a class, exam or exercise for the observance of a religious holy day shall be allowed to complete an assignment or exam scheduled for that day within a reasonable time after that absence.