

Physics 1408-003: Principles of Physics I (Fall 2015) [CRN: 29508]

Class Meeting Time: Tue, Thur 14:00-15:20 in SC 007

Instructor: Dr. P. W. Mengyan **Office:** SC 019 **Tel:** 806.834.0503
Email: Rick.Mengyan@ttu.edu [Begin subject line with PHYS 1408]
Office Hours: MWF 13:30 – 14:30 & Tu 15:30 – 16:30. Other times by appointment
Webpage: <http://www.phys.ttu.edu/~pmengyan> ; www.webassign.net
Required Text: Serway & Jewett. Physics for Scientists and Engineers.
9th ed. (Brooks/Cole, 2014). [*With Enhanced Web Assign Access*]
WebAssign ID: ttu 1822 1560

Course Description (outline and expected outcomes): This calculus based introductory Physics course will cover the basics of classical Newtonian mechanics, encourage critical thinking and general problem solving skills. Progress towards these outcomes will be assessed through in-class exams, homework assignments, quizzes, laboratory and discussion exercises. More information is available via the teaching section of the instructor's webpage.

Homework: Assigned periodically via www.webassign.net. Due date and time indicated on each assignment. Late assignments are *not* typically accepted.

Exams: There will be at least three (3) scheduled exams during the semester plus a final exam. Exams will be administered in the normal lecture room (SC 007) and at the normal meeting time (14:00 to 15:20). No assistance from notes, books or electronic gizmos of any sort will be permitted on the exams. Make up exams will not be administered. If an exam is to be missed due to extenuating circumstances, contact me via email BEFORE the scheduled exam time to see about making the appropriate arrangements.

Tentative Exam Schedule:

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|-------------|---------------|------|-------------|------------|
| Exam 1: | 14:00 – 15:20 | Tues | 22 Sep 2015 | Ch 1 – 5 |
| Exam 2: | 14:00 – 15:20 | Tues | 13 Oct 2015 | Ch 6 – 9 |
| Exam 3: | 14:00 – 15:20 | Tues | 10 Nov 2015 | Ch 10 – 14 |
| Final Exam: | 16:30 – 19:00 | Tues | 8 Dec 2015 | Ch 1 – ~22 |

The exam times and content coverage may be adjusted to accommodate the course schedule. Deviations from this tentative schedule will be discussed in class as they become relevant. The final exam time is predetermined by TTU and will *not* be modified by the instructor.

Grades:

| | | |
|---|-------------|---|
| Lab/Discussion*, Quizzes, Homework, etc: | 40% | A: $\geq 90\%$; B: $\geq 80\%$ C: $\geq 70\%$; D: $\geq 60\%$ F: $< 60\%$ |
| Exams (1, 2, 3, Final, Final; Best 4 of 5): | 60% | |
| <u>Total:</u> | <u>100%</u> | |

*Minimum grade of 60% in the laboratory and discussion components, in addition to appropriate performance in the rest of the course is required to earn an overall passing grade in this course.

Important Notes:

- **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 Holidays:**
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 around that absence.
- **Academic Integrity:**
[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 [...]”.*
- **Appropriate behavior:**
I expect students to behave in a respectful, considerate and courteous fashion in any activity related to this course (e.g. Lecture, lab, discussion, office hours etc).
Rude, disrespectful or disruptive behavior will *never* be tolerated.

Final Notes and Suggestions to Succeed:

- **Course Assistance:** A plethora of options are available to support your success in this course (i.e. Lecture [Dr. Mengyan], lab and discussion via class, office hours, email or special appointment), your textbook, the library, SI sessions and physics department tutors. Do not hesitate to ask questions when you have them and take advantage of the available resources!
- Preparation is the key!
 - o Read your book material before AND after we cover it in class
 - o Study your notes
 - o Take advantage of available resources (i.e. actually attend class, read the book!)
- Start your homework assignments as soon as possible. Give yourself plenty of time to complete the assignments as you will likely need to think carefully about the questions, review the relevant sections of the text or your notes and then work towards a solution.
- Use a dedicated notebook to fully work out homework questions and supplemental work
- Studying for any exam should be an ongoing exercise – structured reviews of relevant materials built into your schedule will promote a better long-term retention and higher understanding of the material
- As always, ask questions when you have them!
- Lastly, *Quando omni flunkus moritati*