

PHYS 1407 - Elementary Physics II - Spring 2020

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Prerequisites: TSI completion. Elementary Physics II may be taken out of sequence with Elementary Physics 1.

Text: Conceptual Physics, 12e, by Hewitt with Mastering Physics

Office Hours: See the schedule on my office door. Please do not hesitate to utilize office hours to get help, get advice, or just chat about whatever. I am here for your success.

Tentative Exam Schedule:

Exam 1 covers Chapters 19 - 21
Exam 2 covers Chapters 22 - 24
Exam 3 covers Chapters 25 - 27
Exam 4 covers Chapters 28 - 30
Exam 5 covers Chapters 31 - 33
Exam 6 covers Chapters 34 - 36
Final Exam is comprehensive

Grading Scale: The standard scale is used for this class.

A: $90.00 \leq$ semester average
B: $80.00 \leq$ semester average < 90.00
C: $70.00 \leq$ semester average < 80.00
D: $60.00 \leq$ semester average < 70.00
F: semester average < 60

Grading Weights: The semester average is calculated based on the following weights

Mastering Physics Reading Quizzes - 9%
Mastering Physics Activities - 9%
Mastering Physics Checkups - 9%
Mastering Physics Test Yourself - 9%
Unit Exams 20%
In Class Discussion/Participation 7%
Video Reviews 7%
Reading Quizzes/Worksheets 7%
Laboratory Work 13%
Final Exam 10%

Optional and Extra Credit items may be added to exam grades

No individual extra credit opportunities will exist.

All Mastering Physics assignments may be renormalized upward by a multiplicative factor.

Mastering Physics Information:

- The Mastering Physics class id for this class is: PHYSICS1407SPRING2020.
- All students should be enrolled in Mastering Physics and have joined the class by the start of the 2nd class period.
- Homework should be done in groups if possible.
- Your fellow classmates can serve as a great resource for discussion as to how to attempt the homework.
- A journal or notebook should be kept and referenced when asking the instructor for assistance.
- Target dates for the homework may initially be set in Mastering but the final due date for assignments is the night of the exam for which the specific chapters are covered.
- Homework turned in after the final due date will incur a penalty but may be turned in as late as the night of the last chapter exam.
- Failure to complete Mastering Physics assignments will make it almost impossible to pass the course.

Mastering Activities Assignments:

- These assignments should be completed after the chapter check up is completed.
- These assignments are designed to apply the major themes of the chapter.
- Do these assignments with a classmate so that you can discuss any aspect of which you are not sure.
- Make sure you journal any questions you have so that you can remember to ask them in class.
- These assignments may be reset one time up to one week before the last day of class.
- Assignments completed after the due date incur a 2% per day penalty with a maximum of 20 points deducted.
- The last day to complete these assignments for points is midnight of the last day of classes.

Mastering Checkup Assignments:

- These assignments should be completed after the material is covered in class.
- These assignments are designed to review the major themes of the chapter.
- Do these assignments with a classmate so that you can discuss any aspect of which you are not sure.
- Make sure you journal any questions you have so that you can remember to ask them in class.
- These assignments may be reset one time up to one week before the last day of class.
- Assignments completed after the due date incur a 2% per day penalty with a maximum of 20 points deducted.
- The last day to complete these assignments for points is midnight of the last day of classes.

Mastering Reading Quiz Assignments:

- These assignments should be completed prior to the day the material is covered in class.
- You should do these as you read the chapter.
- These assignments are designed to introduce the major themes of the chapter and prepare for classroom discussion.
- Do these assignments with a classmate so that you can discuss any aspect of which you are not sure.
- Make sure you journal any questions you have so that you can remember to ask them in class.
- These assignments may not be reset.
- Assignments completed after the due date incur a 2% per day penalty with a maximum of 20 points deducted.
- The last day to complete these assignments for points is midnight of the last day of classes.

Mastering Test Yourself Assignments:

- These assignments should be completed in preparation for the exam.
- These assignments are designed to apply the major themes of the chapter and give you an idea of typical exam questions.
- Many times we will do these assignments as a class or in groups. Be sure to participate in these discussions as grades will be taken.
- These assignments may be reset one time up to one week before the last day of class.
- Assignments completed after the due date incur a 2% per day penalty with a maximum of 20 points deducted.
- The last day to complete these assignments for points is midnight of the last day of classes.

Unit Exam Information:

- Exam dates will be announced in Mastering. Make sure you get this information.
- All electronic devices not required for the exam must be turned off and put away in purses, backpacks, or other enclosed place. Failure to do so may result in points being deducted from your exam.
- Calculators (if needed) may not be shared on individual exams. Cell phones and other devices not primarily intended to be used as calculators may not be used.
- After any student has finished the exam no late arriving student will be permitted to start the exam.
- The final exam will replace the lowest exam grade or missed exam grade of 0.
- Only one exam may be made up and it must be made up in the above fashion.
- If you know you are going to be unavailable for an exam, please check with the instructor at least 1 class period before the exam as it may or may not be possible to take the exam early.
- The second and subsequent missed exams will be recorded as a 0.
- Academic dishonesty will be dealt with according to the guidelines established in the student handbook and departmental policy.
- If you have to leave the room after the individual part of the exam starts then you will need to turn in your exam or be awarded a 0.
- Some exams may be split into parts such as a group part or take home part.

- For some classes, it may be possible to do an immediate retake of a part of an exam. Your instructor will inform you if this is a possibility.
- For “take home” exams, any available resource, including classmates, is not considered cheating. Since rules in such cases can not be enforced, there will be no rules. In others words, you should work collaboratively in such cases.
- For “in class group” exams, there should be lively discussion amongst the group. Each student is assigned a participation coefficient that is used to modify the extent to which they participated in the group. For example, it is possible for a student in a group to get a 0 while others get a 100 on that part of the exam.

In Class Discussion Information:

- Activities may composed of muddy points, perspectives, worksheets, videos, etc. In some cases I may just ask a question as I call roll.
- The above activities are meant to be completed in class usually after the lecture is over but they may from time to time be given at the beginning of class or during the lecture.
- The above assignments can not be made up.
- Students using electronic devices for use other than what is related to the course will be given a reduced grade or 0 for that day’s discussion grade.
- Students leaving the classroom or otherwise disrupting the class will be given a reduced grade or 0 for that day’s discussion grade.
- Students replying in a non appropriate fashion will be given a 0 for that day’s discussion grade.
- Students sleeping or otherwise disrupting class will be given a substantially reduced discussion grade.
- Students being tardy will be given a reduced discussion grade.
- Students not answering questions will be given a reduced discussion grade.
- Unlike many other classes, full credit is not automatically awarded for attendance only. It is a discussion/participation grade, not an attendance grade.
- Students working on other activities during class discussions will be given a substantially reduced grade.
- Homework assignments and the like should be completed outside of class unless specific time is designated for such activities.

Laboratory Work Information:

- Labs will usually be written up and due the same day they are attempted.
- At least one calculation should be shown for each type performed.
- All work must be legible with the answer clearly indicated.
- Many labs are completed from data off of videos or done as a class demonstration.
- Students are expected to work in groups but should present their data and results in their reports.
- Sloppily presented work may not be graded at the instructors discretion.
- Appropriate diagrams, listing of values and variables, and equations must be clearly indicated.
- Do not count on labs being able to be made up.
- Be aware that multiple labs may be done in the same day so missing a day may adversely affect your lab grade.

Final Exam Information:

- The final exam will be given in class.
- The final exam is comprehensive.
- The exam average score may be used for the final exam score if the Mastering homework assignments average after the last chapter exam is greater than or equal to 85%. Doing so will allow the student to be considered “final exempt”.
- The final exam will be given at the time scheduled by the College.
- Any deviation from the scheduled date must be approved by the VP of Educational Services as per College policy.
- The final exam grade will additionally replace the lowest exam grade if it benefits the student.

Video Review Information:

- Individuals should pay attention and take notes during videos to receive full credit.
- Individuals should not work on homework or be otherwise distracting during videos.
- Computers should be closed unless there is a computer component to the video.
- Cell phones and other devices not needed for participation in the video should be put away.
- Students may receive no warnings other than this one before points are deducted as the instructor will not badger the student into compliance.

- Video write ups should be concise and complete. You may present your statements in bullet form if necessary.
- Leaving the room during videos will result in reduced credit.
- Failure to participate in video discussions will reduce credit.
- Some videos may be made up at reduced credit, other may not.
- Many videos will require worksheets or electronic assignments that will be used as part or all of the grade.

Reading and Exercise Worksheets Information:

- Worksheets are usually done as a group activity.
- Worksheets serve as an introduction to the chapter.
- While it is tempting to divide the work by giving different members of the group different questions to answer, this should not be done.
- It is intended that these questions bring group discussion within the group.
- Circumventing group interactions by dividing the work will reduce the grade given to the group.
- A multiplicative factor may be applied to the group grade for individuals not participating in the group discussion.
- Worksheets can be made up at a reduced credit.
- If you are planning to be absent, you may consider turning them in early or emailing them the day they are due.
- Not participating in worksheet discussions will cause your grade to be significantly reduced even though you may have completed the worksheet.

Classroom Information:

- Class is for registered students only - no guests, no children.
- All cell phones and beepers should be used for class purposes only. Students using cell phones, computers, or other devices for purposes other than those directly relating to class will be marked down on their participation and may be removed from class. See the College's cell phone policy for additional information.
- Disruptive behavior, cheating, plagiarism, and other undesirable behavior will not be tolerated. Consult the Student Handbook and the College's Academic Integrity policy for additional information.
- It is the student's responsibility to get all homework assignments, announcements, and instructions given in class.
- Class information, worksheets, and other materials can be found at physics.templejc.edu .
- Students are expected to be engaged in class activities and may have points deducted for "doing their own thing".
- Students should take advantage of any classroom breaks to refresh themselves, stretch their legs, etc.
- Students may eat and drink in class so long as the College's food and drink policy is followed. Basically, all drinks should have tight fitting non-leaking lids and food should not be obnoxious to others in the room. Students are responsible for cleaning up their messes.

Attendance Information:

- To be counted present, a student must be in attendance for the entire class period.
- Do not confuse attendance with participation.
- Do not arrive late to class as this is disruptive to the instructor and fellow students.
- Please see the College's Attendance Policy for additional information.
- It is the student's responsibility to withdraw from the class if they wish to be dropped from the roll. This may be done at the Admissions and Records Office.
- The instructor may drop students who appear to have quit the class or failed to start the class in accord with the College policy.