

PHYS 1310.002 (CRN #51180)

Spring 2022

Regener 103

Tuesday and Thursday: 05:00 PM – 06:15 PM

Class Homepage: <http://physics.unm.edu/Courses/Schwoebel/P1310Sp22/index.php>

Instructor: Paul R. Schwoebel

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TA Tutoring Table: <http://physics.unm.edu/pandaweb/undergraduate/tutoring.pdf>

Problems Sessions (Physics 1311.002 – see below): Tuesday 6:30 PM – 7:20 PM.

Text: *University Physics, 15th edition* by Young and Freeman (Any of the past few editions is fine)

Grading: 30% Homework, 40% Quizzes, 15% Exam 1, 15% Exam 2.

Final grade will be curved to no lower than a C+ average. *Before* the curve if you have 97%-100% your grade will be *at worst* an A+, 94%-96% at worst an A, 90%-93% at worst an A-, 87%-89% at worst a B+, 84%-86% at worst a B, 80%-83% at worst a B-, 77%-79% at worst a C+, 74%-76% at worst a C, 70%-73% at worst a C-, 67%-69% at worst a D+, 64%-66% at worst a D, 60%-63% at worst a D-, < 60% = F.

- 1) **30% Homework:** A combination of Mastering Physics and hand-written problems assigned weekly on Tuesdays at 8 AM that will count, respectively, for 40% and 60% of your weekly homework grade.

Mastering Physics problems will be due the following Tuesday by 11 PM. For Mastering Physics *always use 3 significant figures on numerical answers*. For instructions on how to access Mastering Physics materials through UNM Learn see: <http://online.unm.edu/help/learn/students/other-tools/mylab-mastering.html>. There is also a technical support guide for Mastering Physics on your class home page under General Information.

Hand-written homework problems will be due at the beginning of class time on the second Thursday after they are assigned unless noted. *Hand-written problem assignments and solutions will be posted on your class homepage*. Two of the hand-written homework problems you submit will be graded. Graded homework will be returned to your assigned box in Regener Hall.

- 2) **40% Quizzes:** Unannounced each week during class on Tuesday **and/or** Thursday to encourage reading of the textbook prior to the lectures. There will not be a quiz the first week of classes. Each quiz will consist of a question taken from a list of questions posted on your class homepage the prior week. The questions will be focused on material in the textbook chapter to be covered by lectures the week of the quiz(zes). ***Make-up quizzes will only be given if prior arrangements have been made with the instructor.*** *Quiz solutions will be posted on your class homepage.* Graded quizzes will be returned to your assigned box in Regener Hall.

- 3) **30% Exams:**

15% Exam 1: Thursday March 10th, 5:00 – 6:15 PM.

Exam 1 will cover Chapters 1 – 8.

15% Exam 2: Wednesday May 5th, 5:00 – 6:15 PM.

Exam will cover Chapters 9 – 16, Excluding Ch. 11.

Exam problems will be derived from the homework problems and quiz selection problems, including quiz selection problems that were not used for a quiz. With the exception of 'essay-type' problems, exam problems will be multiple choice. If an explanation/justification for your answer is required and not given you will receive no credit even if the correct answer is chosen from the set of multiple choice selections. *Exam solutions will be posted on your class homepage.*

Problems Session (Optional): PHYS 1311.002 (CRN # 51187)

Regener 114

Tuesdays: 06:30 PM – 07:20 PM.

The problems session is strongly encouraged because students typically find it very useful in furthering their understanding of the course material, completing homework problems, and preparing for quizzes and exams. The instructor oversees the class. Students work in groups or as individuals on homework problems, upcoming quiz questions, or other course-related material they select. Grading (Credit/No Credit) will be based upon attendance and participation. Five or more absences will result in a grade of No Credit.

Schedule

Jan 18 – 20	Chapter 2: <i>Motion Along a Straight Line</i> . (Chapter 1: <i>Units + Significant Figures</i>)
Jan 24 – 26	Chapter 3: <i>Motion in Two and Three Dimensions</i> (Chapter 1: <i>Vectors</i>)
Feb 1 – 3	Chapter 4: <i>Newton's Laws of Motion</i>
Feb 8 – 10	Chapter 5: <i>Applying Newton's Laws</i>
Feb 15 – 17	Chapter 6: <i>Work and Kinetic Energy</i>
Feb 22 – 24	Chapter 7: <i>Potential Energy and Energy Conservation</i>
Mar 1 – 3	Chapter 8: <i>Momentum Impulses, and Collisions</i>
Mar 8 – 10	Mar 8: Start Chapter 9: <i>Rotation of Rigid Bodies</i> Mar 10, Exam 1: Regener 103; 5:00 PM – 6:15 PM; Ch. 1 – 8
Mar 15 – 17	Spring Break
Mar 22 – 24	Finish Chapter 9; Chapter 10: <i>Dynamics of Rotational Motion</i>
Mar 29 – 31	Chapter 13: <i>Gravitation</i>
Apr 5 – 7	Chapter 14: <i>Periodic Motion</i>
Apr 12 – 14	Chapter 15: <i>Mechanical Waves</i>
Apr 19 – 21	Chapter 16: <i>Sound and Hearing</i>
Apr 26 – 28	Chapter 12: <i>Fluids</i>
May 3 – 5	Notes on Chapter 11: <i>Equilibrium and Elasticity</i> May 5, Exam 2: Regener 103; 5:00 PM – 6:15 PM; Ch. 9 – 16 (Excluding Ch. 11)

In accordance with University Policy 2310 and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. It is imperative that you take the initiative to bring such needs to the instructor's attention, as he/she are not legally permitted to inquire. Contact Accessibility Resource Center at 277-3506 for additional information.

Academic Integrity

I take this very seriously. If I find anyone cheating in this class, where cheating includes copying another's work, or paying others to do your work (for example, using online sites *such as Chegg*), I will see to it that the offender is punished to the full extent possible under UNM policies. I have included the policy concerning Academic Dishonesty on the next page.

Regents' Policy Manual - Section 4.8: Academic Dishonesty

Applicability

This policy applies to all students at the University with regard to academic activities and professional activities related to academic work.

Definition

"Academic dishonesty" includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

Policy

Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or who otherwise fails to meet the expected standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course.

References

"Dishonesty in Academic Matters," [Faculty Handbook D100](#).