

Instructor: Prof. Tom Gramila
Office: Smith Lab 1046
Phone: (614)-292-7357
Email: gramila.1@osu.edu (Preferred contact method, please include "Physics 132" in subject line)
Office Hours: 5 to 6:30 PM Mondays.

Text (required): Fundamentals of Physics. Halliday, Resnick and Walker (Wiley).
Extended 8th Edition WebAssignPlus Set. ISBN: 978-0-4702-6033-5.

Laboratory Manual (required): Physics 132 Laboratory Activities and Worksheets.
2nd Edition. ISBN: 978-0-7380-3147-7

Grades: Recitation/Lab 15%, Homework 15%, Quizzes 20%, Midterm 20%, Final 30%

Course Websites: <http://www.physics.ohio-state.edu/~gramila/P132>
<https://carmen.osu.edu/grades>
<https://www.webassign.net/osu/student.html> (HW)

Reading Assignments: Reading assignments will be posted on the class website. You should complete the readings prior to each lecture.

Laboratory: The labs are held Wednesday, Thursday and Friday. The first lab is during the first week of class. The laboratory consists of a combination of hands-on work and group problem solving activities. Read over the laboratory material before attending each lab. The lowest scoring lab is dropped. There will be a bonus of 0.5% added to the course total for attending all of the labs.

Recitations: The Tuesday recitation period will serve as an unstructured question time with your recitation instructor. Quizzes will be given during the Thursday recitation period. The focus of the recitation sessions will be to provide help in solving homework and other problems.

Homework: Homework will be completed online using WebAssign. Homework is due at 8:00am on Wednesdays unless otherwise announced. Information about WebAssign can be found in the handout labeled "On-Line Homework Instructions for Physics 131, 132 and 133".

In addition to the regular weekly WebAssign homeworks, there is a **flex homework assignment** worth 10 points which is part of the total homework grade. To find out how to complete this assignment, please go to the "Flexible HW Assignment" link on the course website.

Quizzes: There are at least seven quizzes, with the lowest quiz grade dropped. Quizzes will be given during the Thursday recitations. The quizzes will be based on the most recent homework set, and on the material covered in reading assignments, lectures, and the labs. You may refer to your most recent set of WebAssign problems during the quizzes. A calculator will be necessary.

Exams: The midterm will be given on **Thursday, May 7**, during your recitation period. The final will be given on

- **Wednesday June 10, 7:30 AM - 9:18 AM** for the 8:30 lectures
- **Thursday, June 11, 9:30 AM - 11:18 AM** for the 9:30 lecture

Details about the midterm and final will be announced on the course website. Both exams will be closed book – no notes will be allowed, but equation sheets will be provided. A calculator will be necessary.

Missed Quizzes, Exams, or Labs: There are no make-up quizzes, exams, or labs. Missed quizzes, exams, or labs may be excused, but only with the permission of the **course manager: Dr. Ed Adelson** (phone 292-2067; email adelson@mps.ohio-state.edu; office Smith Laboratory 1036A). He will require documentation to show that your absence was unavoidable. See the General Information sheet for Physics 131-132-133 for more detailed information.

Research on Learning: As part of an ongoing effort to improve physics instruction, data from student performance in this course may be used in research projects. Any data used will be compiled in aggregate form and in no way will your name be used to identify you with the data. If you object to the use of data on your performance in a research project, please contact your instructor and we will remove your data from any projects.