Physics 304: Classical Mechanics II
Spring 2016
MW 8:30-9:45 in Room 184
Sally Seidel: seidel@phys.unm.edu
Office hours in Room 1103: you are welcome anytime you see the door open, which is almost always.
Appointments: 277-2087 and by email.
Problems session, Mondays 12:00-12:50 in Room 184. Drop-ins are welcome.

This course will provide an introduction to motion in non-inertial reference frames, Hamilton’s equations, the behavior of rigid bodies, coupled oscillations, waves, continuous systems, and statics.

Pre-requisite: Physics 303.


Class attendance is required and will be considered when final grades are computed. Late homework must be accompanied by a doctor’s excuse or similar document.
Course structure:

• 29 lectures will be presented. The slides will be available at http://www-hep.phys.unm.edu/~seidel/Phys304-Spring2016/. You are encouraged to bring the slides to each lecture and annotate them as needed. Revisions to the slides may be made daily.

• Each class period will include 40 minutes’ lecture followed by 35 minutes during which students will form pairs to work on one in-class problem. Credit for work on that problem is only available in class and cannot be made up. **In-class problems are worth 10% of the grade.**

• On alternate Wednesdays, a 30-minute open-book quiz will be given **at 8AM.** Note this is one-half hour before the beginning of lecture. There will be 6 quizzes, each contributing 5% of the grade. Quiz dates: Feb. 10, Feb. 24, Mar. 9, Mar. 30, Apr. 13, Apr. 27.

• Homework will be distributed weekly and is due on Wednesdays. **Homework is worth 30% of the final grade.**

• There will be an open-book **final exam worth 30% of the final grade.**
Guidelines on homework marks:

- A correct final answer does not guarantee full credit.
- Full credit is given only if all steps are demonstrated.
- Every solution must begin with a diagram. If no diagram is possible, begin the solution with the statement “No diagram is possible.”
- Students are welcome to work in teams on homework, but every student’s solution should be written up separately. If several solutions look sufficiently similar to suggest to the instructor that they are copied from a common source, then the total score will be split among them, and the students will receive a warning. Subsequent occurrences will result in no credit for the problem.
- If you need help on homework, please ask me! My time for you is unlimited.

- Update, 7 March 2016. Here’s your warning.
  Photocopies of homework submissions by students who have been copying from the Thornton Solutions Manual have been retained. A further occurrence of this will lead to submission of these documents to the Dean of Students. Note that per UNM policy, consequences of plagiarism can include a lowered grade, failure of the course, and dismissal from the university.
Please note: class will NOT be held on Monday, Feb. 1 or Wednesday, Feb. 3.

The make-up dates for those classes are Friday, Jan. 29, and Friday, Feb. 5. Note: FRIDAYS.

Make-up classes will begin at 8:30 am and end at 9:45 am. They will take place in Room 184.

The material covered in the make-up classes is intrinsic to the course and will be included in quizzes and on the final exam.

To reward your special effort in attending the make-up class, I offer 10 homework points each time you attend a make-up class, as long as you arrive on time, sign the attendance sheet, and stay for the full class. For calibration: a typical homework set is worth 50 points.

If you are unable to attend a make-up class for reasons beyond your control, please see me to discuss receiving the information in an alternate format.