# University Physics I – Fall 2001

**Course:** Physics 101N 4 credits

**Lecture:** M,W,F 10:00–10:50
Oceanography and Physics (OCNPS) Room 100

**Lecturer** Prof L. Weinstein
Office: OCNPS 217 or Nuclear Facility, 1021 W 47$^{th}$ St, Room 104, 683–5803
Email: weinstei@physics.odu.edu
Office Hours: Monday 11:00–12:00 in OCNPS 217, Friday 11:00–12:00 in the Learning Center, and by appointment

If you are confused or don't understand something, get help **immediately**. You can avoid large problems by getting help early.

**Web Page:** http://www.physics.odu.edu/~weinstei/101f01.html
*The page is still under construction.*

**Textbook** Lecture: Conceptual Physics, 9th ed, by P. Hewitt, Addison Wesley, 2001.
Lab: Physics 101 Lab Manual, Monarch Copy Center
Last Year's Lecture Notes: *(optional)* Coursepack in Monarch Copy Center

**Grading:** **This course is uncurved. Everyone can get an A.**
25% – Homework
30% – 2 Exams, 15% each
30% – Final Exam
15% – Laboratory

**Exams** Tentative dates: Oct 5 and Nov 9
**No make-up exams** will be given. If you have to miss a test, contact me as soon as possible.
Closed book exams. Bring a calculator and a one page crib sheet (no xeroxes)

**Final Exam** 8:30–11:30 AM, Monday Dec 10, 2001, Room 100 OCNPS

**Homework** Homework will be assigned Wednesday and due the following Wednesday.
Homework assignments will be posted on the web, on the bulletin board outside OCNPS 217, in the course folder in Monarch Copy Center, and displayed in class.
Homework should be placed in the homework mailbox outside OCNPS 124 no later than 5 PM on the Wednesday that it is due.

Unexcused homework one class late will be penalized 20%. Good excuses will be accepted (write any excuses on the outside of the homework). Truly creative excuses will be posted on the web. Homework handed in after Friday noon will not be graded.

Homework is to be submitted on $8\frac{1}{2} \times 11$ paper. Place a box around your answer to each problem. Fold your paper once along the long side. On the outside of your homework put the following information: your printed name, 'Physics 101', Homework Assignment Number, and the date.

Lowest two homework scores will be dropped.

Homework is not a test. You are encouraged to work together. However, all explanations must be in your own words. You must show your work on all numerical problems.

Solutions will be posted outside OCNPS 217 and in Monarch Copy Center. Check the solutions to make sure that a) you understand the problem and b) the grader did not make a mistake.

**Use of published homework solutions is considered cheating.**

**Note:** I do not have a key to the homework box. Do not put anything in the homework box intended for Dr. Weinstein.

**Laboratory:** Oceanography and Physics, Room 140. See Laboratory Schedule for details. Labs start the second week of class.

**Students who fail the laboratory will fail the entire course.**

**Attendance is mandatory.** You will be allowed one (1) unexcused absence during the semester. If you have two or more unexcused absences, you will fail the entire course. It is your responsibility to inform your instructor of any absence and to arrange to make up the missed work.

Read the assigned experiment before the lab begins and bring the lab manual and graph paper.

Laboratory reports should be prepared according to the instructions in the Physics 101 Laboratory Manual. Your lab instructor will also discuss the format for your lab reports and the grading procedure.

**Monarch Copy Center**

One copy of all lecture notes, homework, handouts, assignments, solutions and practice tests will be in the Physics 101 folder in Monarch Copy Center for you to copy. Please return the pages in the condition you found them (in order and stapled).

**Physics Learning Center**

Room 142 OCNPS is a place for you to get together to work on your homework and get help, if needed, from physics faculty and graduate students. No appointment is necessary. It will be open all week 9–5. You can check http://newton.physics.odu.edu/Learning/ to see when the Center is staffed.

## COURSE SYLLABUS

Text: Conceptual Physics, 9th Edition, Hewitt.

| Week | Chap | Comment | HW Assigned | HW Due | Lab |
|---|---|---|---|---|---|
| Aug 27 | 1–2 | | 1 | none | none |
| Sep 3 | 2 | no class Monday | 2 | 1 | Math Review |
| Sep 10 | 3 | | 3 | 2 | Uncertainty |
| Sep 17 | 4 | | 4 | 3 | Gravity |
| Sep 24 | 5 | | Practice Test | 4 | Newton's 2nd Law |
| Oct 1 | 6 | Review and Test | 5 | none | Composition of Forces |
| Oct 8 | 7 | | 6 | 5 | Friction |
| Oct 15 | 8 | | 7 | 6 | Conservation Momentum |
| Oct 22 | 9, 10 | | 8 | 7 | Ballistic Pendulum |
| Oct 29 | 22 | | Practice Test | 8 | Torque |
| Nov 5 | | Review and Test | 9 | none | Rotational Motion |
| Nov 12 | 23 | | 10 | 9 | none |
| Nov 19<br>Nov 26 | <br>24 | Thanksgiving | none<br>11 | none<br>10 | none<br>Resistance |
| Dec 3 | 25 | Review Friday | none | 11 | Magnetic Force |