

Staff:

Lecturer (section A, MWF 10:30-11:25): Roberto Salgado
304 Searles Science, 725-~~2~~³170, rsalgado@bowdoin.edu

Lecturer (section B, MWF 11:30-12:25): Stephen Naculich
305 Searles Science, 725-3625, naculich@bowdoin.edu

Laboratory instructor (M 1:00-3:55, W 1:00-3:55, F 1:30-4:25): Kenneth Dennison
125 Searles Science, 798-4315, kdenniso@bowdoin.edu

Laboratory instructor (T~~3~~³ 1:00-3:55, Th 1:00-3:55) Roberto Salgado
304 Searles Science, 725-~~2~~³170, rsalgado@bowdoin.edu

Departmental coordinator: Dominica Lord-Wood (M-F 9:30-5:00)
319 Searles Science, 725-3308, dlord@bowdoin.edu

Required materials:

Textbooks: Unit C and Unit N of *Six Ideas That Shaped Physics*, second edition, by Thomas A. Moore (McGraw-Hill, 2003).

Bowdoin College Phys 103 Laboratory Manual, to be purchased from the department office (Searles 319) before your first lab session (\$5 in cash).

Graph Paper Notebook, Quad Ruled, available at the college bookstore.

A scientific calculator will be needed for problem assignments, in the lab, and for examinations. Please label the calculator with your name.

Classes:

You are expected to familiarize yourself with the material before class by reading the assigned chapters in the textbook. Class time will be used to discuss this material, work through examples, and to address any questions or problems you may encounter. Read the *Introduction for Students* on page xvi of Unit C.

Problem Sets:

Since one can only *learn* physics by *doing* physics, problems are an indispensable part of the course.

On each assignment, be sure to include your name, the due date of the assignment, and the names of any fellow students from whom you received assistance. Please use 8×11 paper *without ragged edges*.

Assignments are due *before* the start of each class, and should be deposited in the locked homework box on the south end of the third floor of Searles Science Building. This box will be emptied a few minutes after the start of class. *Late assignments will not receive credit because problems may be discussed in class on the day they are due, and solutions will be posted immediately.*

Graded problem sets will be returned to your individual homework slot on the wall near the locked homework box. Make sure you only pick up your own assignments from the slots.

As with all physics courses, students are encouraged to work together on understanding the physics of the problems assigned, and to discuss them with another. The solutions you hand in, however, should be your own work. Your homework should reflect your understanding of the material in the sense that if you were given a quiz with exactly the same problems you would approach them in exactly the same way. To hand in a copy of someone else's homework as your own is a violation of the Bowdoin Academic Honor Code and will be treated as such.

Solutions will be read by a grader or by the instructor. Explain your problem-solving procedure in words; equations alone are not sufficient. How you do a problem is more important than obtaining the correct numerical answer. If you are confused about some aspect of the problem, identify that aspect. If you make any assumptions, state them. Hand in as much as you can accomplish on each problem. Again, the thought process is more important than the final answer, so even unfinished problems are worth handing in.

Solution sets will be posted on the third floor of Searles Science, and are also collected in a folder in the department office (319 Searles). You may not photocopy these solutions, but you may take notes on them.

Tutoring Sessions:

Searles Science Room 313 will be reserved on Sunday, Tuesday, and Thursday evenings from 5:00-11:00 for those Physics 103 students wishing to work together on problem sets. On Sunday and Tuesday nights from 7:00-9:00 upper-level physics students will also be available to provide assistance. The tutoring sessions are intended to help you with the *process* of solving the problems, not to lead you to the "right answer."

Laboratory:

The course includes weekly laboratory work. Labs will be held in Room 323 Searles Science. Students are expected to do *all* laboratory work, and to do it on the regular assigned day unless arrangements are made with the lab instructor *in advance*.

Examinations:

There will be two midterm examinations, held during the class period. The first is (tentatively) scheduled for Monday, October 4, the second for Wednesday, November 17.

The final examination, covering both Units C and N, will be held on **Thursday, December 16**. The exam for section A will be from 9:00 am–noon, and the exam for section B will be from 2:00–5:00 pm. Make your travel plans accordingly. Any exceptions to this (other than having three exams in two days) must be approved in advance by the Dean's Office.

Grading Policy:

The relative weights of course assignments in the determination of the final grade are:

Problem sets: 20 %

Laboratory: 20 %

Each midterm exam: 15 %

Final exam: 30 %.