

Physics 104C, Methods of Mathematical Physics Spring 2010

Instructor Rena Zieve
Office: 243 Physics
Lab: 230/232 Physics
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Course web page: <http://london.ucdavis.edu/phys104/phys104.html>
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I will be in my office or lab during my scheduled office hours each week.
You are welcome to find me for brief questions at other times. E-mail is by far the best way to get in touch with me.

Grader Yi Cai
Office: 434 Physics
Office hours: Thursday 3-4

Textbook Boas, Mathematical Methods in the Physical Sciences, 3rd or 2nd edition.

Prerequisites Physics 104A. Note that Physics 104B is *not* required.

Grading **Homework 20%**
Problem sets will be due roughly once a week (usually Tuesdays) at the beginning of class. Late problem sets will usually be accepted for half credit up to one class period after the due date. The lowest problem set grade will be dropped. Problems labeled "T" (test-style) or "optional" need not be handed in.

Midterm 30%
There will be one midterm, tentatively on May 6, 2010.

Final Exam 50%
The final will be on Monday June 7, 2010 at 10:30 AM. Approximately three-quarters of the final will test material covered after the midterm.

Tentative Course Outline

<u>Topic</u>	<u>Boas (3rd edition)</u>	<u>Boas (2nd edition)</u>	<u>Estimated dates</u>
Fourier transforms	7.11-7.12, 8.10, 8.12	15.4-15.5, 15.9	3/30, 4/1
Discrete Fourier transforms	—	—	4/6, 4/8
Complex analysis	14	14	4/13 through 5/4
Probability	15	16	5/11 through 5/25
Class's choice	?	?	5/27 through 6/3