Rena Zieve
Office: 243 Physics
Lab: 228/232/234 and 273/275 Physics
Office hours: Tuesday 9:30-10:30 AM, Friday 11 AM-noon
E-mail: zieve@physics.ucdavis.edu
Course web page: http://london.ucdavis.edu/phys204/phys204.html
Cell phone: 574-8874; don’t call 11PM-7AM
E-mail is by far the best way to get in touch with me.

Riley, Hobson, and Bence, Mathematical Methods for Physics and Engineering, 3rd edition

Familiarity with undergraduate physics and thorough mastery of lower-level mathematics.

Homework 35%
Weekly problem sets, which will include some computer-based assignments. In general you may turn in homework up to one lecture after the official due date for half-credit. Occasionally I may not allow late homework (for example, just before the midterm), and I will announce that when I assign the homework. In addition, the lowest homework grade will be dropped.

Midterm 25%
There will be an “in-class” midterm, but preferably starting at 11:40 and lasting 80 minutes instead of 50. The test will tentatively be on Friday February 14.

Final Exam 40%
The final is scheduled for Saturday March 22 at 3:30 PM.

Complex analysis, especially contour integration
Continuous Fourier transforms and discrete Fourier transforms
Green’s function solutions of inhomogeneous differential equations
Probability and statistics
Curved coordinates and curved space (if time permits)