Physics 364 F12 - Course Outline

Instructor:    Graduate TA:
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Office Hours: Tuesday 1:50 – 2:20, Thursday: 9:00 – 12:30, or any time by email.

IMPORTANT: The following classes will be rescheduled –

September 18 (Tuesday)
October 1 (Tuesday)
October 9 (Tuesday)

Make up classes will be scheduled in the weeks after October 9.


Assignments and grading:

There will be 5-6 assignments, a midterm test and a final exam. The final exam will be worth 50% of the final grade, the midterm test 15% and the assignments 35%.

Course content:


Introduction to differential equations, Fourier series        Week 1
Fourier series (Chapter 4)                                  Week 2-3
Sturm-Liouville theory, separation of variables (Chapter 8) Week 4-5
Legendre, Bessel functions, spherical harmonics (Chapter 8) Week 6-9
Green’s functions (Optional Topic C)                       Week 10–12

(The amount of time to be spent on each unit is approximate)