Physics 371 Schedule

Schedule of topics, exams, and assigned reading in *Griffiths*:

**Jan. 13** Overview and historical background; math quiz

**Jan. 15** Wave-particle duality; the double-slit experiment and the uncertainty principle, Feynman, Vol. III, Ch. 1.

**Jan. 20–29** Wave mechanics, Ch. 1, 2.1

**Feb. 1–17** One-dimensional problems, 2.2, 2.4–2.6

**Feb. 11** Review Session (tentative)

**Feb. 12** Midterm 1

**Feb. 19–Mar. 4** The formal structure of quantum mechanics, Ch. 3, Appendix

**Mar. 7–Mar. 23** The harmonic oscillator, 2.3

**Mar. 8** Review Session (tentative)

**Mar. 9** Midterm 2

**Mar. 25–April 6** Angular momentum, 4.1, 4.3, 4.4

**April 8–11** The two-body problem and motion in a central potential, 4.1

**April 13–20** The hydrogen atom, 4.2

**April 14** Review Session (tentative)

**April 15** Midterm 3

**April 22–25** Magnetic moment and the Zeeman effect, 4.4.2

**April 27–29** Matrix mechanics

**May 2** Honors presentations

**May 2, 4** Real-world quantum mechanics: the many-body problem, Ch. 5

**Friday, May 6, 10:30am–12:30pm** Final Exam

Prof. Charles Stafford, Department of Physics