

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