PHY631: Graduate Quantum Mechanics
Fall 2006

Text: Sakurai: Modern Quantum Mechanics (required)

Other refs: Messiah: Quantum Mechanics (useful reference)
Shankar: Principles of Quantum Mechanics (elementary reference)

Instructor: Prof. Graham Kribs

Office: 470 Willamette Hall

Office Hours: 10am–12pm Tuesdays

E-mail: kribs@uoregon.edu
(This is the best way to reach me, however highly technical questions
will only be answered during office hours.)

Class Website: http://wingate.uoregon.edu/phy631
(Amountments, homework, solutions, syllabus, etc.)

Homework: Homework will be assigned weekly on Wednesdays,
due the following Wednesday at the beginning of class.

Grade: 50% Homework (five or six homework sets)
20% In-class Mid-term #1: Monday, 16 October (1h50m)
30% In-class Mid-term #2: Monday, 20 November (1h50m)

Grading Policy: If you do not turn in at least 2/3 of the homework sets on-time,
you fail the course. If you miss both mid-terms, you fail the
course. If you miss one mid-term, the maximum grade I will give
you is a C+. Any variation of this policy is at my discretion,
so you better contact me in advance (or have a documented
medical emergency).

Late Homework: Homework turned in:
- late same day: accepted, but noted that it was late
- 1-2 days late: accepted, graded if and only if our grader has
  not yet started grading the homework, and a grade reduction at
  my discretion
- 3 or more days late: not accepted, zero grade.

Advice: Helping each other with the material and homework is great.
Copying is not. Know the difference: the course is for your
benefit!
Class Cancellation: In the unlikely event that I have to cancel class at the last minute (bad weather or otherwise), I will put an announcement on the class website and attempt to email everyone.

Syllabus 631

(1) Foundations: Stern-Gerlach, Bras, Kets, Operators, Matrices
(2) Measurements and Observables
(3) Time evolution and Schrödinger Equation
(4) Schrödinger versus Heisenberg Pictures
(5) Simple Harmonic Oscillator
(6) Path Integral formulation
(7) Aharonov-Bohm Effect