Fall 9-1-2001

PHYS 452.01: Quantum Physics of the Atom

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Physics 452 - Quantum Physics
Fall 2001

LECTURES: MWF 8:10am - 9:00am, SC 231

INSTRUCTOR: Andrew Ware
Office: SC Bldg, Rm 120, (Tel. No. 243-6221)
Office Hours: MWF 11am-12pm, T 9-10am, R 1-2pm
(and by appointment)

WEBSITE: www.physics.umt.edu/phys452/


PREREQUISITES: Phys 341 & Math 251

HOMEWORK: Problem assignments (about 1 assignment per week).
These will be collected and graded.

TOPICS: Quantatization (Chp. 1)
Uncertainty (Chp. 2)
Schrodinger’s Wave Equation (Chps. 3-6)
Operators and Observables (Chp. 7)
Angular Momentum (Chps. 9-11)
Hydrogen Atom (Chp. 12)

EXAMS:
* Three 50-minute exams on 9/24, 10/29, and 12/3.
* One 2-hour final exam (8:00am - 10:00am, Mo 12/17)

GRADING:
50-minute exams 45 % (15 % each)
Homework 30 %
Final exam 25 %

[This course can be taken for a traditional letter grade (A,B,C,D,F) only]