

PHYS570Y Atomic, Molecular, and Optical Physics I

Instructor: Prof. F. Robicheaux
Office: Physics 284
Office hours: M 1:30-2:30, Tu 1:30-2:30
Phone: 765-494-3029
Email: robichf@purdue.edu

Grader: AbdAlGhaffar Amer
Email: amer1@purdue.edu

Prerequisites: Undergrad Quantum I, Undergrad Quantum II could be useful.

Text: Required: *Atomic Physics* Christopher J. Foot (Chaps 1-7)
Recommended: There are many advanced AMO books that serve different purposes. Contact me if you're interested in more depth in a certain area to figure out which one(s) might be most interesting.

Website: <http://www.physics.purdue.edu/~robichf/class.htm>
This site will have the class notes, homework, etc.

Homework: Homework will be due by midnight Wed. Homework turned in Thurs will be worth $\frac{1}{2}$ credit. Homework turned in Fri will be worth $\frac{1}{4}$ credit. Homework turned in after Fri will be graded but will be worth 0 credit. I strongly suggest you not look at the answers before turning in homework. Working with others is OK but copying solutions from other students or from the web violates academic honesty.

Grading: Homework 90%, Class prep/participation 10%, Organize an extended project?

Topics: See class web page for likely emphasis. The "Class Notes" were covered in 2022.