**Course Information Sheet for Physics 472H/572: Quantum Mechanics II**

A continuation of Physics 371. Schrödinger equation with an external electromagnetic field; identical particles; addition of angular momenta; fine structure of atomic spectra; molecules; approximation methods (perturbation theory; semiclassical methods; variational principle); special topics.

In addition to the requirements of Physics 472, students enrolled for honors or graduate credit must make a 15-minute oral presentation on an advanced topic to be agreed upon with the instructor. The presentation will be graded rigorously, according to the same standard as the exams.

**Professor:** Charles Stafford  
**Office:** PAS 347  
**Phone:** 626-4260  
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**Office hours:** Thursdays, 1–3pm (tentative), or by appointment

Course content available at [www.physics.arizona.edu/~stafford/teaching.html](http://www.physics.arizona.edu/~stafford/teaching.html); item grades and duplicates of important information available at [d2l.arizona.edu](http://d2l.arizona.edu).

**Grading:**

The course will be graded on a curve, based on the cumulative score. The minimum cumulative percentages necessary to obtain the following letter grades will be approximately (but not higher than): $A \geq 85\%$, $B \geq 70\%$, $C \geq 55\%$, $D \geq 40\%$. Cumulative scores will be determined as follows:

- **Homework:** 13.5% (due Fridays at 4pm; lowest score dropped)  
- **Midterm 1:** 22.5% (Thursday, October 2)  
- **Midterm 2:** 22.5% (Thursday, November 13)  
- **Presentation:** 10% (December 2 or 4)  
- **Final Exam:** 31.5% (Wednesday, December 17, 10:30am–12:30pm)

One or more homework assignment(s) will be computational. No excuses accepted for missed homework, but the lowest homework score will be dropped. A missed exam due to an excused absence or a planned absence that is documented ahead of time by the student and approved by the instructor will be substituted with a make-up exam or an alternative arrangement at the discretion of the instructor.

All work to be considered for a regrade must be submitted at most one week after its due date.
Required Text:

Additional References (available in the Science Library)

Disabilities:
Students requiring accommodation in testing or note-taking must notify the instructor and sign up with the Disability Resource Center by September 5, 2014.

Academic integrity:
Students are expected to follow the University code of academic integrity and the code of student conduct. These codes can be found at deanofstudents.arizona.edu/policiesandcodes.

Note: The information contained herein is subject to change with reasonable notice from the instructor.