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# Phys402 - Quantum Physics II

University of Maryland, College Park

Fall 2020

4 credits; Prerequisite: Phys401

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**Class meetings:** MW 10:00-11:50pm, via Zoom (meeting ID's listed at ELMS); meetings will be recorded

**Professor:** Ted Jacobson, jacobson\_at\_umd.edu

"Office hours": After class in zoom room; and Thursday, 4-5pm (see ELMS for zoom address)

**TA:** Batoul Banihashemi, baniha\_at\_umd.edu; "Office hours" by appointment

**Tutoring sessions** with TA: Friday, 3-4:30pm (see ELMS for zoom address)

**Textbook:** *Introduction to Quantum Mechanics*, 3rd ed., David Griffiths and Darrell Schroeter (Cambridge University Press)

**Supplementary course notes:** A set of course notes will be posted at Piazza and updated continually.

**Topics:** Chapters 5-11 of Griffiths & Schroeter, plus or minus a few things

**Course website:** Course plan, assignments, class videos, grades, etc. will be posted at ELMS, <https://elms.umd.edu>

**Piazza course forum** <https://piazza.com/umd/fall2020/phys402/home> We'll use Piazza for supplements and resources, and for questions and discussion. I strongly encourage everyone to make use of Piazza. It is super convenient, it's active any day and hour, and enhances learning for everyone. Please note that you may want to change your Piazza settings to receive notices more often. You can choose to get notices whenever something is posted, or to be sent a digest after a specified amount of time.

**E-mail:** **Students are responsible for making sure I have their correct email address and checking their email daily. Important messages will sometimes be sent to the class by email or via Piazza or ELMS.**

**Lectures:** Students are responsible for material presented in lecture that is not in the book. If you miss a class you should find out what we did, which will be especially easy this semester since classes will be recorded!

## Homework policies:

+ Usually assigned weekly, usually due Monday before the beginning of class, 10am.

+ Include your name and the homework number, and upload in a single file to ELMS before the deadline.

+ **Late homework accepted only under dire circumstances: if you know (or should know) it will be impossible to turn in an assignment on time, you must discuss this with me in advance of the due date.**

+ Some problems will be graded for accuracy, some for effort. In the total score for each assignment, equal "size" problems will be weighted equally, regardless of whether graded for accuracy or effort.

+ You are allowed and encouraged to discuss homework with others, use Piazza, ask the professor or TA for guidance, and consult other books and online sources. However ...

+ **It is forbidden to make use of solutions from a classmate, or found online or elsewhere.** *The write-up you turn in should be your own formulation*, and should reflect your own understanding, and you should be prepared to explain and defend it in detail on your own. Violation of this policy would leave you without a solid comprehension of the material and ill-prepared for exams, and would be a violation of the UMD Code of Academic Integrity (see below). **Your homework will be checked both by computer software and by human inspection for submissions that have significant matches to those of other students or other sources available on the internet.**

**Exams** Midterm (likely date, Wed. Oct. 21), and Final Exam (Tuesday, Dec. 22, 08:00am-10:00am). **Make-up exams must be requested well in advance of the exam**; the reason for the absence must be documented and in accord with University policy (see <https://www.ugst.umd.edu/courserelatedpolicies.html>). If an exam is unexpectedly canceled (due to technical problems) it is automatically rescheduled for the next class period.

**Grading:** The grade weights are 25% for homework, and (30%, 45%) or (45%, 30%) for (mid-term, final exam), whichever maximizes the total score. The lowest homework score will be dropped. The letter grades corresponding to numerical scores will be determined after reviewing the class performance, consistent with the grade definitions indicating mastery of the material: A: excellent, B: good, C: adequate, D: borderline. *Note:* The last day to drop with a "W" is Monday Nov. 9.

**Help: Seek help immediately if you don't understand the material or can't solve the problems.** Help is available via Piazza, and from the TA and the Professor directly. Don't wait until just before the exams! At <https://www.ugst.umd.edu/courserelatedpolicies.html> you'll find resources and counseling services that can help with learning, study skills, and mental health issues.

**Academic integrity:** The University of Maryland, College Park has a nationally recognized Code of Academic Integrity. This Code sets standards for academic integrity at Maryland for all undergraduate and graduate students. As a student you are responsible for upholding these standards for this course. Academic dishonesty is a serious offense that may result in suspension or expulsion from the university. In addition to any other action taken, a grade of "XF", denoting "failure due to academic dishonesty," will normally be recorded on the transcript of the offending student. For more information on the Code of Academic Integrity or the Student Honor Council, visit <http://www.shc.umd.edu>.