

wk		due	reading (Griffiths)
0	28-Sep Historical motivation for quantum mechanics <i>Section None</i>		Wikipedia (Links to an external site.) Links to an external site.
1	3-Oct Continued history. Postulates of QM 5-Oct More postulates including the Born rule <i>Section Classical Probability</i>		OCW video (Links to an external site.) Links to an external site.
2	10-Oct Probability, expectation values, momentum 12-Oct Schroedinger equation. Square well <i>Section Representations of wave functions</i>	HW1	1.3 - 1.5 2.1, 2.2
3	17-Oct More 1D particle; harmonic oscillator 19-Oct Ladder operators. <i>Section Time dependence in quantum mechanics</i>	HW2	2.3 2.3
4	24-Oct Free particle. Wavepackets. 26-Oct 11-12.25 MIDTERM 1 <i>Section Review</i>		2.4
5	31-Oct Scattering and bound states 2-Nov Finite square well. Delta function potential <i>Section Energy measurements</i>	HW3	2.5 2.6
6	7-Nov Hilbert space, states as vectors 9-Nov Hermitian operators <i>Section Position, momentum, energy measurements</i>	HW4	3.1,3.6 3.2,3.3
7	14-Nov 11-12.25 MIDTERM 2 16-Nov Changing basis; unitary transformations <i>Section Review</i>		Appendix A
8	21-Nov Uncertainty principles 23 Nov <i>Thanksgiving</i> <i>Section None</i>	HW5	3.5
9	28-Nov Schroedinger in spherical coordinates 30-Nov Hydrogen atom	HW6	4.1 4.2

	Section	Probability amplitude		
10	5-Dec	Angular momentum		4.3
	7-Dec	More angular momentum	HW7	4.3
	Section	<i>Angular momentum in quantum mechanics</i>		
11	13-Dec	(Wednesday) 4.30-5.55 pm	FINAL EXAM	

Lectures: Tuesday and Thursday 11.00-12.20 in A118

Tutorials (Links to an external site.)Links to an external site.: M 9.30 (A), M 10.30 (B). W 9.30 (C), W 3.30 (E), F 9.30 (F), in B109

Instructor: [David Cobden](#)Links to an external site.

TAs: Kyle Aitken (kaitken@uw.edu), Tong Wan (tongwan@uw.edu), John Lombard (jml448@uw.edu), Hao Geng (hg666@uw.edu), Dake Zho (zdk@uw.edu)

Resources page

Our main text will be Introduction to Quantum Mechanics, 2nd Edition, David J. Griffiths, (Cambridge, 2005).

Problem sets will be assigned and graded most weeks. Answers must be submitted on paper in class on Tuesday. Only your best 5 (out of 7) problem set scores will be used in the grade calculation. Graded homeworks returns will be placed in the filing cabinet outside my office. If you will miss the deadline warn me IN ADVANCE!

Lecture notes

Exams will be closed book, closed notes, and no calculators. See the exams page for why.

Equation sheet for 324

Final grade calculation: (a) 30% each for the best 3 of: midterm 1, midterm 2, final, homework; and (b) 10% for the tutorials. The median will be between 3.1 and 3.2.

Office hours: Monday 1.30-2.30 (Prof); **Monday** 2.30-3.30 (Kyle); **Friday** 2.30-3.30 (Prof), **Friday** 3.30-4.30 (Dake) + **Thursday** 3:30-4:30 (Tong) in C221.

Study: Monday, 4 pm onwards, B417. Gatherings to work on the homework.

