402b-Fall 2019---Course Plan		*This plan will be updated and adjusted as we go. () refers to GS sections.*	
week		Mon	Wed
1	Aug. 26	survey of 401; composite systems; combining spatial & spin degrees of freedom; warmup math	two particle systems; bosons and fermions (5.1)
2	Sep. 2		helium atom (5.2.1)
3	Sep. 9	many electron atoms, periodic table, Hund's rules (5.2.2)	Hund's rules
4	Sep. 16	degenerate electron gas, white dwarfs and neutro	Chandrasekhar limit (notes), band structure (5.3.2), tight binding model (notes)
5	Sep 23	Feynman-Hellmann theorem; relativistic and spin-orbit corrections (fine structure) (7.3)	fine structure, nuclear magnetic moments, hyperfine interaction (7.5), hyperfine structure
6	Sep. 30	perturbation theory (7.1); Zeeman effect history	Zeeman effect (7.4)
7	Oct. 7	Stark effect, Van der Waals, other examples?	symmetries
8	Oct. 14		midterm exam
9	Oct. 21	variational method, molecules (8)	molecules
10	Oct. 28	WKB approximation (9)	WKB approximation
11	Nov. 4	scattering (10)	scattering
12	Nov. 11	dynamics (11)	dynamics
13	Nov. 18	dynamics	dynamics
14	Nov. 25	dynamics	
15	Dec. 2	dynamics	dynamics
16	Dec. 9	dynamics	
	Final exam, Tues. Dec. 17		

