

Spring 2022 Schedule of Lectures and Assignments

Date		Lecture Topic	Reading	Homework
01/19	W	One-on-One meetings	Syllabus	
01/21	F	One-on-One meetings	Syllabus	
01/24	M	Radiation I: Continuum Emission	DW 2.3	
01/26	W	Radiation II: Line Emission	DW 2.2	
01/28	F	ISM I: Overview of Components and Structure	ISM Notes & Ferriere 2001	
1/31	M	ISM II: Cooling	DW 3.2	
2/2	W	SNOW DAY (No class)		
2/4	F	Office Hours		
2/7	M	ISM III: Heating	DW 3.3	Problem Set #1 due
2/9	W	ISM IV: Chemistry	DW 3.4	
2/11	F	Dust I: Properties	DW 4.1, 4.3, 4.4, 4.5	
2/14	M	Dust II: Chemistry	DW 4.6	
2/16	W	Nebulae I: Recombination & Ionization	DW 5.2	
2/18	F	Office Hours		
2/21	M	Nebulae II: Forbidden Lines, Structure	DW 5.3	Problem Set #2 due
2/23	W	Gas Dynamics I: Adiabatic/Isothermal	DW 6.1	
2/25	F	Gas Dynamics II: Sound waves and time scales	DW 6.2	
2/28	M	Gas Dynamics III: Shock Waves	DW 6.3, 6.4	
3/2	W	Office Hours		
3/4	F	Stellar Winds, Supernovae, &	DW 7.1.1, 7.2.1,	

		Plasma	7.3.1	
3/7	M	Molecular Clouds		Problem Set #3 due
3/9	W	Midterm Day 1		
3/11	F	Midterm Day 2		
		SPRING BREAK		
3/21	M	Star Formation I: Virial Theorem	DW 8.1	
3/23	W	Star Formation II: Time Scales	DW 8.1	
3/25	F	Stars I: Protostars	SG 1.2	
3/28	M	Stars II: Properties and the H-R Diagram	SG 1.1	
3/30	W	NO CLASS		
4/1	F	Stars III: Initial Mass Function	SG 2.1.2	Problem Set #4 due
4/4	M	Stars IV: Clusters and 2-body Relaxation	SG 2.2.3, 3.2	
4/6	W	Stellar Motions in Galaxies	SG 3.1, 3.4	
4/8	F	Dwarf Galaxies & The Local Group	SG Chapter 4	
4/11	M	Disk Galaxies I: Rotation and Dark Matter	SG 2.3, 5.3	
4/13	W	Disk Galaxies II: Bars, Bulges, and Black Holes	SG 5.5, 5.6	
4/15	F	Office Hours		
4/18	M	Disk Galaxies IV: Groups and Mergers	SG 7.1	Problem Set #5 due
4/20	W	Galaxy Scaling Relations	5.3.3, 6.2.2	
4/22	F	Ellipticals I: Stellar Motion and Orbits	SG 6.2	
4/25	M	Ellipticals II: Clusters and Hot Gas	SG 6.3, 7.2, 7.3	
4/27	W	Office Hours		

4/29	F	Black Holes and AGN	SG 6.4, 9.1, 9.2	Problem Set #6 due
5/2	M	Redshift and Peculiar Velocities	SG 8.2, 8.4	
5/4	W	The growth of structure	SG 8.5	