

AST 381 Schedule

Date			Topic	Reading Assignment
28 Aug 2013	Wednesday	first day of classes	Course Overview	
30 Aug 2013	Friday		Overview of Solar System and Exoplanets	Arm Ch. I; dP&L Ch. 1
2 Sep 2013	Monday		Labor Day – no classes	
4 Sep 2013	Wednesday		Protoplanetary Disks I	Arm Ch. II A-B; dP&L Ch. 13.1-13.4.1
6 Sep 2013	Friday		Protoplanetary Disks II	Arm Ch. II C-D; dP&L Ch. 13.4.2-13.4.3
9 Sep 2013	Monday		Planetesimal Formation and Growth	Arm Ch. III A-B; dP&L Ch 13.5-13.6
11 Sep 2013	Wednesday		Giant Planet Formation	Arm Ch. III C; dP&L Ch. 13.7
13 Sep 2013	Friday		Dynamics – 2 body problem	dP&L Ch. 2.1
16 Sep 2013	Monday		Dynamics – 3 body problem	dP&L Ch. 2.2
18 Sep 2013	Wednesday		Dynamics – Perturbation theory and orbital stability	dP&L Ch. 2.3-2.5
20 Sep 2013	Friday		Planet Scattering and Tidal Evolution	Arm Ch. IV C-E; dP&L Ch. 2.6
23 Sep 2013	Monday		Planet Migration	Arm Ch. IV A-B; dP&L Ch. 13.8
25 Sep 2013	Wednesday		Radiation Pressure, PR drag, YORP	dP&L Ch. 2.7
27 Sep 2013	Friday		Meteoritics	dP&L Ch. 8
30 Sep 2013	Monday		Meteoritics	dP&L Ch. 8
2 Oct 2013	Wednesday		student presentations	
4 Oct 2013	Friday		student presentations	
7 Oct 2013	Monday	WDC at AAS/DPS	Planetary Surfaces I	dP&L Ch. 5.1-5.3
9 Oct 2013	Wednesday	WDC at AAS/DPS	Planetary Surfaces II	dP&L Ch. 5.4
11 Oct 2013	Friday	WDC at AAS/DPS	Planetary Surfaces III	dP&L Ch. 5.5
14 Oct 2013	Monday		Solar Heating and Energy Transport	dP&L Ch. 3
16 Oct 2013	Wednesday		Planetary Atmospheres I	dP&L Ch. 4.1-4.3
18 Oct 2013	Friday		Planetary Atmospheres II	dP&L Ch. 4.4-4.5
21 Oct 2013	Monday		Planetary Atmospheres III	dP&L Ch. 4.6-4.7
23 Oct 2013	Wednesday		Atmospheric Hydrodynamics	dP&L Ch. 4.8-4.9
25 Oct 2013	Friday		Exoplanet Atmospheres	Seager & Deming 2012
28 Oct 2013	Monday		Exoplanet Atmospheres	
30 Oct 2013	Wednesday		Solar Wind	dP&L Ch. 7.1
1 Nov 2013	Friday		Asteroids I	dP&L Ch. 9.1-9.3
4 Nov 2013	Monday	WDC at Kepler Sci Con	Asteroids II	dP&L Ch. 9.4-9.6
6 Nov 2013	Wednesday	WDC at Kepler Sci Con	Planetary Interiors I	dP&L Ch. 6.1-6.2
8 Nov 2013	Friday	WDC at Kepler Sci Con	Planetary Interiors II	dP&L Ch. 6.3-6.4
11 Nov 2013	Monday		Comets I	dP&L Ch. 10.1-10.3

13 Nov 2013	Wednesday	WDC at AAAC	Comets II	dP&L Ch. 10.4-10.7
15 Nov 2013	Friday		Comets III	A'Hearn 2011, Mumma & Charnley 2012
18 Nov 2013	Monday		Planetary Satellites	dP&L Ch. 5.5.5-5.5.8
20 Nov 2013	Wednesday		Planetary Rings	dP&L Ch. 11
22 Nov 2013	Friday		Planets, Life and Habitability	dP&L Ch. 12.5-12.6
25 Nov 2013	Monday		student presentations	
27 Nov 2013	Wednesday		student presentations	
29 Nov 2013	Friday		Thanksgiving – no classes	
2 Dec 2013	Monday	review	review	
4 Dec 2013	Wednesday	review	review	
6 Dec 2013	Friday	last day of classes	review & Course Instructor Survey	
NOTES:	dP&L	de Pater & Lissauer	"Planetary Sciences" Second Edition	course textbook
	Arm	Armitage	"Lecture Notes on the Formation and Early Evolution of Planetary Systems"	on Blackboard as Armitage.pdf
Seager & Deming 2012			Exoplanet Atmospheres	on Blackboard as SeagerDeming_ARAA12.pdf
	A'Hearn 2011		Comets as Building Blocks	on Blackboard as A'Hearn_ARAA12.pdf
Mumma & Charnley 2012			The Chemical Composition of Comets—Emerging Taxonomies and Natal Heritage	on Blackboard as MummaCharnley_ARAA12.pdf