Course Outline (subject to change)

(subject	(subject to change)				
Class	Date	Topic	Lecture Tutorials	Due in class (unless otherwise	Textbook
No.				specified)	Sections
1	Wed 9/5	Size and Scale in the	Sun Size		1.1, 1.2, 1.4
		Universe			
2	Fri 9/7	Lab #1 – Astronomy vs.			3.4-3.5
		Astrology			
N/A	Sun 9/9			Mastering Astronomy #1 (11:59pm)	1.1-1.4, 2.1
ω	Mon 9/10	History of Planet		Lab #1	1.3, 2.1
		Discovery			
4	Wed 9/12	Intro to the Night Sky –	Position and Motion	"Prelab" #1 – Parts III-VII	1.3, 2.1
л	Eri 0/1/	12h #2 - 1ptro to		Drolah #7	2 1
		Observing			
N/A	Sun 9/16	Orientation to the Night Sky (Optional, but highly	ky (Optional, but highly	Mastering Astronomy #2	2.1-2.3, S1.2
		recommended) 8:30pm-10pm, NSC Roof	ງpm, NSC Roof	(11:59pm)	
		Backup day in case of clouds = Mon 9/17	ds = Mon 9/17		
6	Mon 9/17	Intro to the Night Sky –	Seasonal Stars	Lab #2	S1.2
		Yearly Motions	Ecliptic		
7	Wed 9/19	Seasons	Seasons	Observing Asst #1	2.2
∞	Fri 9/21	Lab #3 – Motion of the		Prelab #3	2.3
		Sun			
N/A	Sun 9/23			Mastering Astronomy #3	S1.2, 2.2-2.3,
				(11:59pm)	3.2-3.3
9	Mon 9/24	Ancient Observations of	Observing Retrograde	Lab #3	3.2-3.3
		the Sun, Moon, Earth	Motion		
		and Planets			

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No.		•		specified)	Sections
10	Wed 9/26	Heliocentric and	Planetary Postitions (supp.)		3.2-3.3
		Geocentric Cosmologies			
11	Fri 9/28	Lab #4 – Solar System		Prelab #4	
^	6 6 6	Models			,
N/A	Sun 9/30			Mastering Astronomy #4 (11:59pm)	3.2-3.3, 4.4
12	Mon 10/1	Kepler's Laws	Kepler's Second Law Kepler's Third Law	Lab #4	3.3
13	Wed 10/3	Newton's Laws	Newton's Law and Gravity	Observing Asst #2	4.4
N/A	Thu 10/4	Midterm #1 7-10pm			
14	Fri 10/5	Lab Makeup Day			
N/A	Mon 10/8	NO CLASS – FALL BREAK			
15	Wed 10/10	Planet Formation	Temperature and Formation of our Solar System		8.1-8.2, 7.2
16	Fri 10/12	Lab #5 – Galilean Moons		Prelab #5	
N/A	Sun 10/14			Mastering Astronomy #5 (11:59pm)	7.2, 8.1-8.2, 9.1-9.2
17	Mon 10/15	Planetary Internal Structure and Energy	Earth's Surface Features (supp.)	Lab #5	9.1
			Planet Surface Features (supp.)		
18	Wed 10/17	Planetary Surfaces as a Geological Record	The Moon's Crater History, Craters: The Order of Events	Observing Asst #3	9.2
19	Fri 10/19	Lab #6-7: Tour of Solar		Prelab #6	7.1, 9.3-9.5,
		System			10.3-10.5,
					12.1-12.5

30 W	29 M	N/A Su	28 Fr	27 W	26 M	N/A Su		25 Fr	24 W		23 M		N/A Su				22 Fr	21 W		20 M		N/A Su	No.	Class Da
Wed 11/14	Mon 11/12	Sun 11/11	Fri 11/9	Wed 11/7	Mon 11/5	Sun 11/4		Fri 11/2	Wed 10/31		Mon 10/29		Sun 10/28				Fri 10/26	Wed 10/24		Mon 10/22		Sun 10/21		Date
Microlensing	Direct Imaging + Astrometry		Lab #9 – Selection Biases	Transits	Radial Velocity		Extrasolar Systems	Lab #8 – Scale Models of	Tour of Solar System Presentations		Earth's Atmosphere					System	Lab #6-7: Tour of Solar	Planetary Atmospheres	Interactions	Tides and Orbital				Topic
Detecting Exoplanets with Gravitational Microlensing				Detecting Exoplanets with the Transit Method	Motion of Extrasolar Planets				entations		Greenhouse Effect													Lecture Tutorials
Observing Asst #5	Lab #9	Mastering Astronomy #9 (11:59pm)	Prelab #9		Lab #8	Mastering Astronomy #8 (11:59pm)		Prelab #8	Observing Asst #4	(5pm, submit on Moodle)	Tour of Solar System Poster	(11:59pm)	Mastering Astronomy #7				Prelab #7				(11:59pm)	Mastering Astronomy #6	specified)	Due in class (unless otherwise
Supplemental material	Supplemental material	13.1-13.4, 24.1-24.2		13.1-13.4	13.1-13.4	13.1-13.4					10.6	10.6	10.1-10.2,	12.1-12.5	11.1-11.3,	10.3-10.5,	7.1, 9.3-9.5,	10.1-10.2		4.5	10.2, 10.6	9.1-9.2, 10.1-	Sections	Textbook

			Final Exam	TBD	N/A
			The Future	Wed 12/12	39
	Lab #11		Biosignatures	Mon 12/10	38
Astronomy #11	Mastering Ast (11:59pm)			Sun 12/9	N/A
	Prelab #11		Lab #11 – The Drake Equation	Fri 12/7	37
Asst #6	Observing Ass		SETI and the Search for Life	Wed 12/5	36
	Lab #10		Habitability and Life in Other Solar Systems	Mon 12/3	35
Astronomy #10	Mastering As (11:59pm)			Sun 12/2	N/A
	Prelab #10		Lab #10 – Exoplanet Activity	Fri 11/30	34
			Life in the Solar System	Wed 11/28	33
			History of Life on Earth	Mon 11/26	32
		IG BREAK	NO CLASS — THANKSGIVING BREAK	Fri 11/23	N/A
		IG BREAK	NO CLASS — THANKSGIVING BREAK	Wed 11/21	N/A
		IG BREAK	NO CLASS — THANKSGIVING BREAK	Mon 11/19	N/A
			Lab Makeup Day	Fri 11/16	31
			Midterm #2 - 7-10pm	Thu 11/15	N/A
	specified)				No.
Due in class (unless otherwise	Due in class	Lecture Tutorials	Topic	Date	Class