EAS 1601: How to Build a Habitable Planet CULC 152, 12:00 - 1:30PM T-R Textbook: Planetary Systems, Custom Edition for Georgia Tech. Pearson ISBN-13: 978-0-558-711269

I. Introduction			Readings	
1	8/21/2012	Introduction		
		Introduction	Intro.pdf	
	e Big Bang			
2	8/23/2012	Basic Physics 1: Gravity and Radiation and Light	Big Bang.pdf	
3	8/28/2012	Early Theories of Earth, Solar System and Cosmos		
4	8/30/2012	Basic Physics 2: Space/Time & Relativity		
5	9/4/2012	Evidence of the Big Bang		
6	9/6/2012	The Big Bang: What does it mean?		
7	9/11/2012	EXAM 1		
III. Th	ne Formation	of the Elements	Chapt 16,2,10,12	
8	9/13/2012	Basic Physics 3: Matter and the Nucleus	Stars,pdf	
9	9/18/2012	Formation of H and He	Galaxies.pdf	
10	9/20/2012	Formation and Morphology of Stars	Nucleosynthesis.pdf	
11	9/25/2012	Formation of Heavy Elements in Giant Stars	Chart of the Nuclides.pdf	
IV. Our Solar System				
12	9/27/2012	The Sun, Inner and Outer Planets	http://www.solarviews.com/eng	
13	10/2/2012	Basic Physics 4: Radioactivity and Radioactive Dating	solarsys.htm	
14	10/4/2012	The Age of our Solar System	Age of theSolar System.pdf	
15	10/9/2012	When Were the Elements that Make Up Our Solar System Synthesized?	Age of the Elements.pdf	
16	10/11/2012	EXAM 2 (Covers Sections III and IV Only)	Chapt 16,2	
	10/16/2012	Fall Recess		
V. The Formation of the Earth				
17	10/18/2012	Accretion and Differentiation	Chapt 17, 3.3	
18	10/23/2012	The Crust: Part I, Morphology	• •	
19	10/25/2012	The Crust: Part II, Maintenance and Upkeep through Tectonics		
VI. Co	ntending with	n Neighbors		
20	10/30/2012	The Moon	Chapts 5,6, 7	
21	11/1/2012	Asteroids and Comets		
VII. Making Earth Habitable				
22	11/6/2012	Having Enough Water - H Escape		
23	11/8/2012	Climate: Getting the Temperature Right		
24	11/13/2012	Climate: The Goldilocks Problem; Why the Earth and not Mars or Venus?		
25	11/15/2012	EXAM 3	Chapt 3,12	
26	11/20/2012	The Challenge to Habitability: Climate Variability on the Earth Over Geologic Time		
	11/22/2012	Thanksgiving Recess		
27	11/27/2012	Keeping the Right Amount of Oxygen		
VIII. T	The Final Step	os estados est		
28	11/29/2012	The Origins of Life		
29	12/4/2012	Whence Our Resources?	Chapt 10	
30	12/6/2012	How will it All End?		
12/	11/12 11:30 AM	Final Exam		

Note: Lecture Notes will be posted on T-Square under EAS1601/Resources/Lecture Notes. Readings will be posted on T-Square Under EAS1601/Resources/Readings