

Astronomy 7B: Introduction to Astrophysics

Spring 2012

11:00 am -12:30 pm Tuesday, Thursday
3 Evans

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C256 Hearst Field Annex

Office Hours (in C57 HFA): 1:30-2:30 pm Thursday, or by appointment

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Text (required): *An Introduction to Modern Astrophysics*, **Second Edition**, Carroll & Ostlie (Pearson, 2007)

Week	Lecture Dates	Topic	Reading:
1	1/17, 1/19	Special Relativity	Chap. 4 (all)
2	1/24, 1/26	Basic General Relativity	17.1, 17.2
3	1/31, 2/2	Black Holes	17.3
4	2/7, 2/9	Accretion Disks	18.2, 28.1, 28.2
5	2/14	Midterm 1	
	2/16	Distances and Magnitudes	3.2, 3.6
6	2/21, 2/23	Dust and the Interstellar Medium	12.1
7	2/28, 3/1	The Milky Way	24.1, 24.2 (pp 881-886), 24.3 (pp 919 - 922)
8	3/6, 3/8	Rotation Curves and Dark Matter	24.3 (pp 908 - 919)
9	3/13	Midterm 2	
	3/15	Galaxy Properties	25.1, 25.2
10	3/20, 3/22	Galaxy Evolution	Chap. 26 (all)
	3/27, 3/29	Spring Break	
11	4/3, 4/5	Large-Scale Structure	27.1, 27.3

12	4/10, 4/12	Expansion of the Universe	27.2, 29.1
13	4/17, 4/19	Relativistic Cosmology	29.3, 29.4
14	4/24, 4/26	The Microwave Background	29.2