

## 8.286 SPRING 2002: APPROXIMATE COURSE SCHEDULE

Alan H. Guth

February 26, 2002

Class Number	Date	Lecture Notes	PS's and EXAMs	Topic
1	Tues Feb 5	LN 1 & 2	PS 1 out (LN 1-3, Reading: Weinberg, Ch 1-3)	LN1: The Doppler Effect and Special Relativity LN2: Further Consequences of Special Relativity LN3: The Kinematics of Newtonian Cosmology
2	Thurs Feb 7	LN 2 & 3		
3	Tues Feb 12	LN 3		
4	Thurs Feb 14	LN 4		LN4: The Dynamics of Newtonian Cosmology
	Tues Feb 19			No class (Monday schedule)
5	Thurs Feb 21	LN 4	PS 1 due	LN4: The Dynamics of Newtonian Cosmology
6	Tues Feb 26	LN 5	PS 2 out (LN 4,5, Reading: Rowan-Robinson, Ch 1-3)	LN5: More Dynamics of Newtonian Cosmology
7	Thurs Feb 28	LN 6		LN6: Introduction to Non-Euclidean Spaces
8	Tues Mar 5	LN 6	PS 3 out (LN 6, Reading: Rowan-Robinson, Ch 4,5)	
9	Thurs Mar 7	LN 7	PS 2 due	LN7: Black-Body Radiation and the Early History of the Universe
10	Tues Mar 12		Exam 1 (LN 1-5, PS 1,2)	
11	Thurs Mar 14	LN 7		LN7: Black-Body Radiation and the Early History of the Universe
12	Tues Mar 19	LN 8		LN8: The Cosmological Constant
13	Thurs Mar 21	LN 8	PS 3 due, PS 4 out (LN 7,8, Reading: Weinberg, Ch 4-5)	

Class Number	Date	Lecture Notes	PS's and EXAMs	Topic
	Tues Mar 26			No class (Spring break)
	Thurs Mar 28			No class (Spring break)
14	Tues Apr 2	LN 9	PS 5 out (LN 9, Reading: Weinberg, Ch 6-8)	LN9: Big Bang Nucleosynthesis
15	Thurs Apr 4	LN 9	PS 4 due	
16	Tues Apr 9		Exam 2 (LN 6-8, PS 3,4)	
17	Thurs Apr 11	LN 10	PS 5 due, PS 6 out (LN 10,11, Reading: Rowan-Robinson Ch 6, 8.1-8.3, Epilogue)	LN10: Problems of the Standard Cosmological Model
	Tues Apr 16			No class (Patriot's Day)
18	Thurs Apr 18	LN 11		LN11: Introduction to Particle Physics
19	Tues Apr 23	LN 11		
20	Thurs Apr 25	LN 12	PS 6 due, PS 7 out (LN 12, Reading: ?)	LN12: The Magnetic Monopole Problem
21	Tues Apr 30	LN 12		
22	Thurs May 2	LN 13	PS 7 due, PS 8 out (LN 13,14, Reading: ?)	LN13: The New Inflationary Universe
23	Tues May 7	LN 13		
24	Thurs May 9		Exam 3 (LN 9-12, PS 5-7)	
25	Tues May 14	LN 14		LN14: Inflationary Predictions for Cosmic Microwave Background Anisotropies
26	Thurs May 16		PS 8 due	What's really new