Math. 312 Schedule

(Except for test days, this is only approximate.)

Block 1:

Topic	Days	Haberman sections	Fulling notes pages
Introductory examples [*]	5	1.1 - 1.4, 2.1 - 2.4	1 - 14
Fourier series	4	3.1 - 3.3, 3.6	15 - 28
Linearity and homogeneity	1	2.2	29 - 35
Catchup or review	1		
Test A	Friday, Sept. 22		

* wave equation in lecture, heat equation in textbook

Blo	ock	2:	
T			

Days	Haberman sections	Fulling notes pages
1	2.5.1, 7.1 - 7.4	36 - 42
4	10.1 - 10.6	43 - 54
5	9.1–9.3, (11.3)*	55 - 71
1		
Friday	y, Oct. 20	
	Days 1 4 5 1 Friday	Days Haberman sections 1 2.5.1, 7.1–7.4 4 10.1–10.6 5 9.1–9.3, (11.3)* 1 Friday, Oct. 20

 \ast Parts of Sec. 11.3 assume that you've studied all of Chapters 8 and 9.

Block 3:			
Topic	Days	Haberman sections	Fulling notes pages
Sturm–Liouville problems	4	5.1-5.5, 5.8-5.10, 7.5	72-81
Polar coords., Bessel fns.	5	1.5, 2.5.2, 7.7 7.9	82–101
Catchup or review	2		
Test A	Friday, Nov. 17		
Block 4:			
Topic	Days	Haberman sections	Fulling notes pages
Spherical harmonics	3	7.10	102–109
Classification	2	2.5.4, 6.1	110-113
Catchup or review for final	1		
Advanced reading:			
Topic		Haberman sections	Fulling notes pages
More on the wave equation		Ch. 4, 11.2, Ch. 12	
Green fns. for nonhom. problems		Ch. 8, 9.5	
Convergence thms. for Fourier ser	ries	3.4 - 3.5	App. B