

MAT 2540: DISCRETE MATH II, Spring 2017  
 HOMEWORK ASSIGNMENTS and CLASS SCHEDULE

Lec.	Date	Topic	Homework	Further Problems
1—8	Jan 30 – Mar 1	3.1 Algorithms pages 191-200 3.2 The Growth of functions pages 204-216 3.3 Complexity of algorithms pages 218-228 <b>First Test</b>	<b>P. 202:</b> 3-27 odd <b>P. 216:</b> 1-27 odd, 34-42 all <b>P. 229:</b> 1-5 all	
9—16	Mat 6 – Mar 29	11.2 Applications of Trees pages 757 – 769 11.4 Spanning Trees pages 785 – 795 11.5 Minimum Spanning Trees pages 797 – 802 <b>Second Test</b>	<b>P. 769:</b> 1- 7 odd, 11, 19, 21, 22, 37 <b>P. 795:</b> 2 – 6 all, 13 – 15 all, 16, 27, 28, 30 <b>P. 802:</b> 1, 2, 3, 6, 7	
17—24	Apr 3 – May 3	8.1 Applications of Recurrence Relations pages 501 – 510 8.2 Solving Linear Recurrence Relations pages 514 - 524 8.3 Divide and Conquer Algorithms and Recurrence relations: pages 527-532 8.4 (Optional) Generating Functions: pages 537-548 <b>Third Test</b>	<b>P. 510:</b> 13, 16, 28, 31, 33 <b>P. 524:</b> 1, 3, 11, 17, 23, 25, 27 <b>P. 535:</b> 1-21 odd <b>P. 549:</b> 1-11 odd.	
25—30	May 8 – May 24	5.3 Recursive Definitions and Structural Induction pages 344 – 357 5.4 Recursive Algorithms pages 360 – 370 <b>Final Exam</b>	<b>P. 357:</b> 1, 3, 5, 7, 30, 33 - 35 all, 43, 44, Ackermann's function, 48*, 51*, 60, 61 <b>P. 370:</b> 1 – 5 odd, 7 - 10 all, 15, 16, 29, 30, 37*, 46, 50 - 52 all	

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