

## EECS 203 W18: Schedule (V1)

Lec	Day	Date	Topic	Reading 7e	Homework
			<b>Logic, Proofs, and Objects (sets, relations, functions)</b>		
1	Thu	4-Jan-18	Introduction to Course, Propositional Logic	1.1	
2	Tue	9-Jan-18	Propositional Equivalences	1.2, 1.3	
3	Thu	11-Jan-18	Predicates and Quantifiers	1.4, 1.5	HW 1 out
4	Tue	16-Jan-18	Introduction to proofs	1.6, 1.7	
5	Thu	18-Jan-18	Proof Methods and Strategy	1.8	HW 2 out, HW 1 due Thu at 11:59 pm
6	Tue	23-Jan-18	Sets, Set Operations	2.1, 2.2	
7	Thu	25-Jan-18	Functions	2.3	HW 3 out, HW 2 due Thu at 11:59 pm
8	Tue	30-Jan-18	Sequences and Summations	2.4, 2.5	
9	Thu	1-Feb-18	Mathematical Induction	5.1	HW 4 out, HW 3 due Thu at 11:59 pm
10	Tue	6-Feb-18	Strong Induction and Well-ordering	5.2	
			<b>Estimating, Counting, and Probability</b>		
11	Thu	8-Feb-18	Basics of Counting, Pigeonhole Principle	6.1, 6.2	HW 5 out, HW 4 due Thu at 11:59 pm
	<b>Mon</b>	<b>12-Feb-18</b>	<b>Midterm 1 (7-8:30pm) (covers sections 1.1-1.8, 2.1-2.5, 5.1; Including HWs 1-4)</b>		
12	Tue	13-Feb-18	Permutations and Combinations, Binomial Coefficients	6.3, 6.4	
13	Thu	15-Feb-18	Binomial Coefficients, Generalized Permutations and Combinations	6.4, 6.5	HW 6 out, HW 5 due Thu at 11:59 pm
14	Tue	20-Feb-18	Discrete probability	7.1, 7.2	
15	Thu	22-Feb-18	Bayes' Theorem	7.3	HW 7 out, HW 6 due Thu at 11:59 pm
	<i>Tue</i>	<i>27-Feb-18</i>	<b>Mid Semester Break</b>		
	<i>Thu</i>	<i>1-Mar-18</i>			
16	Tue	6-Mar-18	Expectation and Variance	7.4	
			<b>Relations, Orders, and Graphs</b>		
17	Thu	8-Mar-18	Relations and their properties	9.1, 9.2	HW 8 out, HW 7 due Thu at 11:59 pm
18	Tue	13-Mar-18	Representing relations, Closures	9.3, 9.4	
19	Thu	15-Mar-18	Equivalence Relations, Partial Orderings	9.5, 9.6	HW 9 out, HW 8 due Thu at 11:59 pm
	<b>Mon</b>	<b>19-Mar-18</b>	<b>Midterm 2 (7-8:30pm) (covers sections 5.1, 5.2, 6.1-6.5, 7.1-7.4, 9.1-9.2; Including HWs 4-8)</b>		
20	Tue	20-Mar-18	Graphs, Graph Terminology	10.1, 10.2	
			<b>Algorithms and Complexity</b>		
21	Thu	22-Mar-18	Algorithms	3.1	HW 10 out, HW 9 due Thu at 11:59 pm
22	Tue	27-Mar-18	Growth of Functions, Complexity of Algorithms	3.2, 3.3	
23	Thu	29-Mar-18	Recurrence (solving linear recurrences)	8.1, 8.2	HW 11 out, HW 10 due Thu at 11:59 pm

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24	Tue	3-Apr-18	Divide-and-conquer algorithms and recurrence relations	8.3	
			<b>Number Theory and Cryptography</b>		
25	Thu	5-Apr-18	Divisibility and Modular Arithmetic	4.1, 4.2	HW 12 out, HW 11 due Thu at 11:59 pm
26	Tue	10-Apr-18	Prime numbers and Congruences	4.3, 4.4	
27	Thu	12-Apr-18	Cryptography	4.6	HW 13 out (ungraded), HW 12 due Thu at 11:59 pm
28	Tue	17-Apr-18	Review		
	<b>Thu</b>	<b>19-Apr-18</b>	<b>Final exam (7-9 pm) (comprehensive)</b>		