<u>Course Schedule</u>

Yellow boxes indicate sessions that meet at unusual times.

(Precise schedule of topics may be flexible.)

Dates	Monday	Wednesday	Thursday
6 Jan – 10 Jan	Lecture 1: Course intro, big picture (text Ch. 1)	No recitation	Lecture 2: Basic tools of discrete math (text Ch. 2) Problem Set 1 assigned
13 Jan – 17 Jan	Lecture 3: Propositional logic (text Ch. 3)	Recitation	Lecture 4: Proof techniques (text Ch. 4) PS 1 due 9pm; PS 2 assigned
20 Jan – 24 Jan	No class	Recitation	Lecture 5: Mathematical induction I (text Ch. 5) PS 2 due 9pm; PS 3 assigned
27 Jan – 31 Jan	Lecture 6: Mathematical induction II (text Ch. 6)	Exam 1: 8-10am *(no recitation)*	Lecture 7: Recursive functions, sets, and structures (text Ch. 7) PS 3 due 9pm; PS 4 assigned
3 Feb – 7 Feb	Lecture 8: Proofs with Recursion (text Ch. 8)	Recitation	Lecture 9: Sums & asymptotics (text Ch. 9) PS 4 due 9pm; PS 5 assigned
10 Feb – 14 Feb	Lecture 10: Number Theory (text Ch. 10)	Recitation	Lecture 11: Graphs, part 1 (text Ch. 11) PS 5 due 9pm; PS 6 assigned
17 Feb – 21 Feb	**Class meets Tuesday** Lecture 12: Graphs, part 2 (text Ch. 12)	Recitation	Lecture 13: Counting I (text Ch. 13) PS 6 due 9pm; PS 7 assigned
24 Feb – 28 Feb	Lecture 14: Counting II (text Ch. 14)	Exam 2: 8-10am *(no recitation)*	Lecture 15: Probability (text Ch. 15) PS 7 due 9pm; PS 8 assigned
3 Mar – 7 Mar	Spring Break		

Week	Monday	Wednesday	Friday
10 Mar – 14 Mar	Lecture 16: Conditional probability (text Ch. 16)	Recitation	Lecture 17: Independence (text Ch. 17) PS 8 due 9pm; PS 9 assigned
17 Mar – 21 Mar	Lecture 18: Random variables (text Ch. 18)	No class – GM Week	Lecture 19: Expected value (text Ch. 19) PS 9 due 9pm; PS 10 assigned
24 Mar – 28 Mar	Lecture 20: Expected value of a sum (text Ch. 20)	Recitation	Lecture 21: Deviation from the mean (text Ch. 21) PS 10 due 9pm; PS 11 assigned
31 Mar – 4 Apr	Lecture 22: Infinity (text Ch. 22)	Recitation	Lecture 23: What is "computing"? (text Ch. 23) PS 11 due 9pm; PS 12 assigned
7 Apr – 11 Apr	Lecture 24: Finite automata (text Ch. 24)	Exam 3: 8-10am *(no recitation)*	Lecture 25: Context-free languages (text Ch. 25) PS 12 due 9pm; PS 13 assigned
14 Apr – 18 Apr	Lecture 26: Turing Machines (text Ch. 26)	Recitation	Lecture 27: Unsolvable problems (text Ch. 27) Problem Set 13 due 9pm
21 Apr – 25 Apr	Lecture 28: Efficiency (text Ch. 28)	Recitation	No classes – reading days
28 Apr – 2 May	Final exams		