CSCI 170 Spring 2016 Syllabus

Course Logistics

Instructor	Email	Office	Office Hours
Aaron Cote	aaroncot@usc.edu	SAL 340	M 12:45-1:45pm M W 3:30-4:30pm T Th 2-3pm
Michael Shindler	shindler@usc.edu	SAL 204	W 10:00 - 11:50 AM W 2:00 - 3:30 PM and by appointment

TA	Anthony Shao	Ho Yee Cheung	Neal Lawton	Nidhi Shah
Email	ashao@smad.com	hoyeeche@usc.edu	nlawton@usc.edu	nidhirsh@usc.edu

Lec	Time		Room
1	M W	10:30 - 11:50 AM	SLH 102
2	M W	2:00 - 3:20 PM	MHP 101
3	M W	4:00 - 5:20 PM	ZHS 352

Dis	Time		Room
1	Fri	10 - 11:50 PM	THH 210
2	Fri	12 - 1:50 PM	ZHS 352
3	Fri	2 - 3:50 PM	GFS 106
4	Fri	4 - 5:50 PM	SLH 102

Textbook: Discrete Mathematics and its Applications, by Kenneth H. Rosen.
Course Website: https://blackboard.usc.edu
Forums: https://piazza.com

Grading

Artifact	Weight	Date		
Exam 1	15%	Thursday,	February 18	7:00 - 8:50 PM
Exam 2	15%	Thursday,	March 31	7:00 - 8:50 PM
Final	30%	Wednesday,	May 11	7:00 - 9:00 PM
Problem Sets	40%	Various		

Exams

You will be provided with paper on which to take the exam. Both midterms will be held on Thursdays from 7-8:50pm. Exams will be individual effort, closed-book and mostly closed-notes. You will be allowed two 8.5x11inch handwritten note sheets (front & back) on the exams.
Please make a note of the exam dates. Students requiring alternate exam arrangements must make such requests within the first two weeks of the term, or as soon as possible after knowing of the conflict or requirement.

Late Policy

You may submit homework in class or in the dropbox by the time it is due. If you miss the collection time, your homework is late. **Always** submit late homework to the dropbox. You are allowed three late days over the course of the semester. Saturday and Sunday do not count towards late days. If a homework assignment was due Thursday, and you turn it in Monday (by the collection time), you will use up two of your late days. Homework will not be accepted beyond the allowed grace period. Regardless of remaining number of late days, homeworks will never be accepted after solutions have been posted: solution post times will always be announced well in advance.

Tentative Schedule

Week	Mon	Topic	Reading	Other
1	1/11	Introduction Sets, Functions, Sequences	 Ch. 2.1-2.4	 HW 1 Out
2	1/18	**No Class** Runtime Analysis		 HW 1 in
3	1/25	Runtime Analysis Logic	Ch. 3	HW 2 Out
4	2/1	First-Order Logic Logic and Proofs	Ch. 1.1-1.5	HW2 In HW3 Out
5	2/8	Proofs Proofs	Ch. 1.6-1.8	 HW3 In
6	2/15	**No Class** Induction	 Ch. 5.1	 **Exam 1: 2/18**
7	2/22	Program Correctness Strong Induction		HW4 Out
8	2/29	Advanced Induction Intro to Graph Theory	Ch. 5.4-5.5 Ch. 10.1-10.4	HW4 In HW5 Out
9	3/7	Trees Connectivity and Circuits	Ch. 11	 HW5 In
		Spring Break		
10	3/21	Graph Algorithms More Graph Applications	Ch. 10.5-10.8	HW6 Out
11	3/28	Spanning Trees Counting	 Ch. 6.1	HW6 In **Exam 2: 3/31**
12	4/4	Pigeonhole Principle Discrete Probability	Ch. 6.2 Ch. 7.1-7.2	HW7 Out
13	4/11	Conditional Probability Bayes Theorem	 Ch. 7.3	HW7 In HW8 Out
14	4/18	Expectation and Variance Number Theory	Ch. 7.4 Ch. 4	 HW8 In, HW9 Out
15	4/25	Applications of Number Theory Applications of Number Theory	Ch. 4	 HW 9 In