

Discrete Mathematics and Probability Theory (Fall 2019)

Jump to Today

CS70: Discrete Mathematics and Probability Theory

Fall 2019, UC Berkeley

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Lectures : Tu & Th, 3:30-5 pm, Wheeler 150

Course Website : <http://www.eecs70.org/>

Piazza : <https://piazza.com/berkeley/fall2019/cs70>

Lecture webcast links can be found in "Course Captures" and also in the table shown below. Please refer to the [course website](http://www.eecs70.org/) and the [Piazza site](https://piazza.com/berkeley/fall2019/cs70) for all other course-related material. In particular, please make sure to read this [course policies](#) page.

Lecture #	Date	Topic	Note	Webcast
1	8/29	Introduction and Propositional Logic	Note 1	2019-08-29
2	9/3	Proofs	Note 2	2019-09-03
3	9/5	Induction	Note 3	2019-09-05
4	9/10	Stable Marriage	Note 4	2019-09-10
5	9/12	Graph Theory I	Note 5	2019-09-12
6	9/17	Graph Theory II	Note 5	2019-09-17
7	9/19	Modular Arithmetic	Note 6	2019-09-19
8	9/24	Public Key Cryptography	Note 7	2019-09-24
9	9/26	Polynomials	Note 8	2019-09-26
10	10/1	Error-Correcting Codes	Note 9	2019-10-01
11	10/3	Infinity and Countability	Note 10	2019-10-03
12	10/15	Counting I	Note 11	2019-10-15
13	10/17	Counting II	Note 11	2019-10-17
14	10/22	Introduction to Probability	Note 12	2019-10-22
15	10/24	Conditional Probability, Bayes' Rule, Total Probability Rule	Note 13	2019-10-24
16	10/29	Independence, Combination of Events, Inclusion-Exclusion, Union Bound	Note 13	2019-10-29
17	10/31	Random Variables: Distribution and Expectation	Note 14	2019-10-31
18	11/5	Random Variables: Variance and Covariance	Note 15	
19	11/7	Concentration Inequalities and the Law of Large Numbers		