

Mathematics 11 Syllabus (revised May 2019)

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Based on *Stats: Data and Models* (5th edition) by De Veaux, Velleman, and Bock.

Lecture	Chapters	Topic
1	2, 4	Summarizing Data
2	6	Correlation
3-4	7-8	Linear regression
5-7	12-13	Probability rules, conditional probability, independence
8	14	Random variables
9	15.1-15.3	Geometric and Binomial distributions
10	15.6	Poisson distribution
11-12	supplement	Continuous distributions
13	5	Normal distribution
14-15	10, 16.1, 17.1	Surveys, Sampling distributions, Central Limit Theorem
16	16	Confidence intervals for proportions
17	17	Confidence intervals for means
18-20	18-19	Hypothesis testing
21-22	20-21	Two-sample problems
23-24	23	Regression inference
25	22	Chi-square tests

Math 11 is an introductory probability and statistics course which, effective Fall 2016, is required of all Biology majors. The textbook can be used by students who have not taken Calculus. However, Math 11 students have taken two quarters of Calculus, so the course includes a unit on continuous distributions. A short supplement to take the place of the textbook is available for this portion of the course.

Math 11 is five units because the course has an intensive computer lab component. Math 11 instructors should contact Jason Schweinsberg at jschwein@math.ucsd.edu for further information concerning the administration of the course and the computer labs.