

Mathematics 11 Syllabus (revised April 2016)

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Based on *Stats: Data and Models* (4th edition) by De Veaux, Velleman, and Bock.

Lecture	Chapters	Topic
1	3-4	Summarizing Data
2	6	Correlation
3-4	7-9	Linear regression
5-7	13-14	Probability rules, conditional probability, independence
8	15	Random variables
9	16.1-16.3	Geometric and Binomial distributions
10	16.6	Poisson distribution
11-12	supplement	Continuous distributions
13	5	Normal distribution
14-15	11, 16.4, 17	Surveys, Sampling distributions, Central Limit Theorem
16	18	Confidence intervals for proportions
17-18	19	Hypothesis testing for proportions
19-20	20-21	Inference for means
21-22	22-23	Two-sample problems
23-24	25	Regression inference
25	24	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 5 units because the course has an intensive computer lab component. You can find the computer labs for the Fall of 2016 at <http://www.math.ucsd.edu/~math111/F16.html>. Replace F by W or S for the Winter or Spring, and replace 16 by the actual year, to find the computer labs that will be in use for other quarters.

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.