

SYLLABUS MATH 4/6614

Spring 2016

Instructor: Dr. Dale Bowman

Office: Dunn Hall 357

Office hours: MW 12:30-1:30 and by appointment

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Topics covered include: exploratory data analysis, sample space, events, probability, conditional probability, independent events, Bayes' theorem, random variables, probability distributions, discrete probability distributions, continuous distributions, expectation, moments, moment generating function, joint distributions, estimation, hypothesis testing

Text: Foundations and Applications of Statistics, by Randall Pruim, published by American Mathematical Society

Students are required to subscribe to Top Hat for the semester in order to work the homework assignments and quizzes. There will be homework assignments and or quizzes weekly. The homework assignments will count 100 points towards your final grade. **No homework will be accepted for any reason after the due date.** Some homework will need to be completed using computer software. You may use any program that you are familiar with to complete these assignments. Only the output will be turned in (no code). The textbook shows examples using the free programming language R which you can download at any CRAN site.

Tests and Final Exam: There will be two tests and a comprehensive final exam. Each test will count 100 points towards your final grade and the final exam will also count 100 points. **There will be NO makeup tests given for any reason.** If you must miss a test, your final exam will count for 200 points towards your final grade. If you miss two tests you will receive a zero on the second missed test.

Attendance is required and will be taken during each class period using Top Hat.

Your grade will be computed according to the following scale based on the percentage of the 500 possible points that you obtain:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
below 60%	F

This syllabus is intended as a guideline for expectation and evaluation in this course. The instructor reserves the right to make any changes that may be deemed necessary during the course of the semester.