

MATH 106R: Statistics I

Without assuming a calculus background, Statistics I is an introduction to the basics of descriptive and inferential statistics. The focus of the course will be on the development of statistical literacy and statistical thinking through the examination of real-world data from a variety of contexts, including data sets that are of interest to students. Topics include statistical distributions, linear regression and correlation, surveys and experiments, sampling distributions, probability, confidence intervals and hypothesis testing. Student centered, the course engages students in projects focusing on activity-based instruction that integrates technology (e.g., dynamic statistical packaged, calculator-based "labs", spreadsheets, on-line virtual manipulatives) and emphasizes the conceptual understanding of the statistical concepts studied.

Credits: 3-4

Lecture Hours: 4

Prerequisites:

(1) SAT Mathematics Score ≥ 530 OR (2) SAT Mathematics Score ≥ 450 with required mathematics workshop (3) Successful completion (with a grade of "C" or better) of Fundamentals of Mathematical Literacy or Fundamentals of Mathematical Literacy for STEM Fields OR (4) written permission of mathematics advisor.

Program: [Mathematics](#)