# STAT S1211Q Introduction to Statistics

#### • Instructor

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#### • Lecture Time

6:15-7:50pm Monday-Thursday, 503 Hamilton Hall, July 2<sup>nd</sup>-August 9<sup>th</sup>

# • Course Description

We will cover topics including discrete combinatorial probability; common discrete and continuous random variables and their distributional theory; population mean, variance, covariance and their sample analogs; point estimation; confidence interval; hypothesis testing; linear regression; Bayesian methods.

## • Prerequisites

One semester of Calculus. So you should be familiar with derivatives and integrals of basic functions, chain rules for differentiating composite functions and integration by substitution and integration by parts techniques.

We will also do some statistical computation with R statistical computing environment. So some prior exposure to programming is expected.

### Textbook

*Probability and Statistics for Engineering and the Sciences*, 8th edition, Jay Devore, Brooks/Cole, 2012

# • Teaching Assistant

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