This course will introduce students to basic theoretical concepts and computational tools in probability and statistics with emphasis on their role in solving engineering problems.

This course will cover:

- **Introduction to probability**: probability space, random variables and random processes, distribution/density functions, and more!

- **Elements of statistics**: sample means, confidence intervals, hypothesis testing, and more!

- **Elements of stochastic processes**: autocorrelation functions, power spectral density, wide-sense stationary processes, and more!

- Applications to engineering problems in circuits, data communication, computer networks, signal processing, reliability, and data-traffic models.

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