

# ECE 2292: Engineering Probability&Stats

Basic set theory, axioms of probability, probability relationships. Concepts of a random variable. Joint random variables. Selected topics in statistics from: estimation, hypothesis testing and regression. Selected topics from: function of a random variable, random processes Markov chains, applications (e.g. reliability, queuing, microprocessor control, digital communications, detection).

**Credits:** 3

**Prerequisites:**

MAT 2705

MAT 2705

**Program:** [Electrical and Computer Engineering](#)