

# EECE 331: Probability and Statistics for Eng. Applications

Applications of signals and systems control, to communications and signal processing, (digital filter, narrow-band signals, modulation/demodulation, multiplexing control systems, feedback and stability), computer exercises. Applied probability and statistics, sample spaces and events, measure theory, experiments, trials, distributions (such as Poisson, Binomial, and normal), random variables (continuous and discrete), law of large numbers, Chebyshev's inequality, estimation, reliability, and quality. Designing with tolerance, applications of probability and statistics in engineering design.

**Credits:** 3

**Prerequisites/Permissions:**

MATH 159

**Program:**

## Electrical Engineering

### COURSE DESCRIPTIONS