

# BMEN3341 - Probability Theory and Statistics for Biomedical Engineers

[BMEN 3341](#) Probability Theory and Statistics for Biomedical Engineers (3 semester credit hours) Probability theory, independence, Bayes' rule, normal distribution, central limit theorem. Graphical representation of data. Descriptive and inferential statistics with applications to biomedical engineering, hypothesis testing, confidence intervals, and linear regression. One sample, paired samples, and two independent samples methods. Credit cannot be received for both courses, ([CS 3341](#) or [SE 3341](#) or [STAT 3341](#) or [ENGR 3341](#)) and [BMEN 3341](#). Recommended Corequisite: [MATH 2420](#). Prerequisite: [MATH 2414](#) or [MATH 2419](#). (3-0) S