

ENGR3341 - Probability Theory and Statistics

[ENGR 3341](#) Probability Theory and Statistics (3 semester credit hours) Axioms of probability, conditional probability, Bayes theorem, random variables, probability density/mass function (pdf/pmf), cumulative distribution function, expected value, functions of random variables, joint, conditional and marginal pdfs/pmfs for multiple random variables, moments, central limit theorem, elementary statistics, empirical distribution correlation. Credit cannot be received for both courses, ([CS 3341](#) or [SE 3341](#) or [STAT 3341](#)) and [ENGR 3341](#). Recommended Corequisite: [MATH 2420](#). Prerequisite: [MATH 2414](#) or [MATH 2419](#). (3-0) S