

CS6313 - Statistical Methods for Data Science

[CS 6313](#) ([STAT 6313](#)) Statistical Methods for Data Science (3 semester credit hours) Statistical methods for data science. Statistical Methods are developed at an intermediate level. Sampling distributions. Point and interval estimation. Parametric and nonparametric hypothesis testing. Analysis of variance. Regression, model building and model diagnostics. Monte Carlo simulation and bootstrap. Introduction to a statistical software package. Prerequisite: [CS 3341](#) or [SE 3341](#) or [STAT 3341](#) or equivalent. (3-0) S