MATH 1401 or STAT 1401—Elementary Statistics

MATH/STAT 1401: Elementary Statistics (3 credit hours)

Catalog Description: This is a non-calculus based introduction to statistics. Course content includes descriptive statistics, probability theory, confidence intervals, hypothesis testing, and other selected statistical topics.

Prerequisite: Completion of an Area A MATH course or placement based on the institution's placement process

A. <u>Uniform Requirements:</u> 60% to 80% of class time will be spent on these topics
   - Sampling and data
   - Graphical and numeric descriptive statistics (central tendency, variation, position)
   - Exploratory data analysis
   - Basic probability theory (including normal distribution, t-distribution)
   - Confidence intervals
   - Hypothesis testing

B. <u>Additional topics:</u>   20% to 40% of class time will be spent on selected topics from the following list.

   - Discrete distributions
   - Simulations
   - Correlation
   - Regression
   - Chi-Square
   - ANOVA
   - Other statistical applications