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.

Prerequisites:

When offered in Area A1: MATH 0996 taken as a corequisite or exemption from Learning Support requirements.

When offered in Area D: May have no collegiate prerequisite or may require completion of an Area A1 mathematics course.

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