Calendar Description.**1510 Statistical Thinking and Concepts** examines the basic statistical issues encountered in everyday life, such as data collection (both primary and secondary), ethical issues, planning and conducting statistically-designed experiments, understanding the measurement process, data summarization, measures of central tendency and dispersion, basic concepts of probability, understanding sampling distributions, the central limit theorem based on simulations (without proof), linear regression, concepts of confidence intervals and testing of hypotheses. Statistical software will be used to demonstrate each technique. Ninety Minute laboratory each week.

Prerequisite: MATH 1090 or a combination of placement test and high school Mathematics scores acceptable to the Department.

**Note:** A student cannot receive credit for STAT 1510 if completed with, or subsequent to, STAT 2500, 2510 or 2550.