

**In Math 1070, students learn:**

- Graphical presentation of data and interpretation
- Descriptive statistics and constructing 5-number summary
- Correlation coefficient and simple linear regression
- Introduction to types of studies and types of sampling
- Probability
- Random variables, distributions, sampling distributions and the central limit theorem
- Confidence intervals using  $Z$  and  $t$  distributions for single and two sample problems
- Hypothesis tests using  $Z$  and  $t$  distributions for single and two sample problems
- Analysis of variance using the  $F$  distribution
- Tests for categorical data using the  $\chi^2$  distribution