1. COURSE DESCRIPTION: This course is taken in conjunction with MAT 1450, Introductory Statistics. This course reviews prerequisite concepts for the topics in MAT 1450. Each prerequisite concept is covered in this course just prior to being needed in MAT 1450. The topics covered in this course include use of summation notation, evaluation of algebraic expressions, rounding rules, solving equations and inequalities with square roots, extracting information from tables and graphs.

2. COURSE OBJECTIVES: This is a course of study that allows students to take Introductory Statistics simultaneously by providing just-in-time remedial mathematical support. The course is designed in the hope of motivating students who would otherwise need to complete Intermediate Algebra before getting to the college level course. This course focuses on areas where students are struggling and reinforces the college-level material.

3. PREREQUISITE: Satisfactory score on Mathematics Placement Test or grade of "C" or better in MAT 1270.

4. ASSESSMENT Grades will be calculated as follows:
   In-class group work* 30%
   Out-of-class assignments 70%
   Total 100%

   The following grading scale will be used:
   A  90.0% - 100.0%
   B  80.0% - 89.9%
   C  70.0% - 79.9%
   D  60.0% - 69.9%
   F  0 - 59.9%

5. CALCULATOR: A scientific or graphing calculator is required.

6. MAT 1450 TEXT: THE BASIC PRACTICE OF STATISTICS, Seventh Edition
   Moore/Notz/Fligner
   Macmillan Education W. H. Freeman and Company
   Adopted: Fall 2015

7. PREPARED BY: Craig Birkemeier, Robert Chaney, Wendy Cheng

   Effective: Spring 2017

*In-class group work is embedded in the weekly worksheet. The grading should be based on its completion. However, the out-of-class assignments should be graded based on the correctness.
<table>
<thead>
<tr>
<th>Week</th>
<th>Co-Requisite Content</th>
<th>MAT 1450 Content</th>
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</thead>
</table>
| 1    | Statistical Distributions  
Rounding Numbers  
Square Roots/Radicals | Chapter 1 Picturing Distribution with Graphs  
Chapter 2 Describing Distributions with Numbers |
| 2    | Use Summation Notation | Chapter 2 Describing Distributions with Numbers |
| 3    | Solve Linear Equations and Inequalities (with fractions)  
Convert Variables | Chapter 3 The Normal Distributions |
| 4    | Linear Equations  
More on the Sigma Notation ($\sum$) | Chapter 4 Scatterplots and Correlation  
Chapter 5 Regression |
| 5    | Exam 1 Practice Problems | Chapter 5 Regression  
Test 1 |
| 6    | Sets and Set Notation  
Union and Intersection of Sets  
Two-Way Tables | Chapter 6 Two-Way Tables  
Chapter 8 Producing Data: Sampling  
Chapter 12 Introducing Probability |
| 7    | Sample Space and Basic Probability Rules | Chapter 12 Introducing Probability  
Chapter 13 General Rules of Probability |
| 8    | Convert Variables from $\bar{X}$ to Z  
Predict the Change in the Value of a Fraction | Chapter 15 Sampling Distributions |
| 9    | Exam 2 Practice Problems  
Plus-Minus Notation/Evaluating Expressions and Critical Thinking | Chapter 16 Confidence Intervals: The Basics |
| 10   | Comparison of Decimal Numbers (P-Value)  
Equations with Square Roots (Solve for the Sample Size with a Desired Margin of Error) | Chapter 17 Tests of Significance: The Basics  
Chapter 18 Inference in Practice |
| 11   | Differentiating Matched Pairs from Two-Sample Problems  
The T-Table | Chapter 20 Inference about a Population Mean |
| 12   | Exam 3 Practice Problems | Test 3  
Chapter 21 Comparing Two Means |
| 13   | Solve Equations with Square Roots (Test Statistics for Proportions) | Chapter 22 Inference about a Population Proportion |
| 14   | Use the Summation Formula to Find the Value of Chi-Square Test Statistics | Chapter 25 Two Categorical Variables: The Chi-Square Test |
| 15   | Exam 4 Practice Problems | Test 4 |
| 16   | Review/Study Hall | Final Exam |