INSTRUCTOR: NATHAN KEITH  
PHONE: (708) 957-9327

This course is a continuation of Stat 361. It is assumed that the basic content of Stat 361 has been accomplished and that students are ready to move on in the area of statistical inference. Focus of the course will be on statistical comparison of group means, the chi-square statistic, analysis of variance, regression and correlation. Students will work individually and in groups to analyze data and present the results of their analysis to the class. Students will be expected to identify a source of statistical data and analyze and present results as part of their course grade.


In class work will require competent use of a statistical calculator equivalent to a TI-35 or TI-36. Students will also have to do work using GSU computers accessing Minitab or SPSS programs.

Class attendance and participation are both mandatory. Students missing 3 or more class sessions should withdraw from the course since they will not be able to participate sufficiently in class work.

Chapter Topics
Week 1 & 2
  Review of Stat 361  
  Chapter 8 Interval Estimation - Large Samples

Week 3 & 4
Chapter 9 Hypothesis Testing

Week 5 & 6
Chapter 10 Statistical Inference about Means

Week 7 Exam

Week 8
Chapter 12 Tests of Goodness of Fit and Independence

Week 9 & 10
Chapter 13 Analysis of Variance
Week 11 & 12
Chapter 14 Linear Regression and Correlation

Week 13
Chapter 15 Multiple Regression

Week 14 Student statistical presentations

Week 15 Student statistical presentations

Course Evaluation

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<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Mid-Term Exam</td>
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<tr>
<td>In-Class Group Work</td>
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<tr>
<td>Presentation</td>
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