STA 101:02 Data Analysis & Statistical Inference  
2002 Summer Term I  
Duke University  
Mon.-Fri. 9:30-10:45 AM, 231 Social Sciences  
“If you have the courage to begin, you have the courage to succeed.”  
—David Viscott

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<tr>
<th>Instructor:</th>
<th>Teaching Assistant:</th>
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<tbody>
<tr>
<td>Name:</td>
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<td>Office Hours:</td>
<td>Wed 11 AM - Noon</td>
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<td>AND by appointment</td>
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<td>Office Phone:</td>
<td>684-8840</td>
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**Course Website:** www.stat.duke.edu/~laura/sta101_02.html

**Computing Laboratory Section (REQUIRED):** M,T,TH 11:00-noon PM, 229 Social Sciences

**Text and Software:** *Statistics: 3rd Edition* by Freedman, Pisani, and Purves (The text can be purchased at the Duke textbook store in the Bryan Center.) Additionally, *JMP IN* software will be used during lab sessions; however, purchase of this product is not required.

**Grading:**
- Homework: 10%
- Quizzes: 15%
- Lab Participation: 5%
- Journal: 5%
- Midterm Exam: 20%
- Project and Presentation: 20%
- Final Exam: 15%
- Departmental Exam
  - (1st hour of final exam): 10%

**Attendance:** Daily attendance is expected! With a full semester course being compressed to five and a half weeks, coverage of course material will be swift.

**Homework:** Homework assignments will be announced in class and posted on the website (listed above). Although there will be many problems assigned throughout the week, there will be only a few questions collected for grading each week. You are encouraged to work together in solving problems, however make sure you are comfortable enough with the material to solve on your own—for you will *NOT* take quizzes and exams with your peers! Questions regarding the homework will *NOT* be taken during class time, however please make use of Rosy and my office hours during which we will cheerfully entertain questions!
“...the question is usually not how well each person works, but how well they work together.”—Vince Lombardi

**Quizzes:** Several unannounced quizzes will be given throughout the course. This is to keep you on your toes since the summer session progresses quickly! Quizzes can be cumulative! **NO MISSED QUIZZES WILL BE MADE UP!**

**Lab Participation:** Lab assignments will be given to complete during lab hours. The purpose of these assignments is to familiarize yourselves with the role of technology, in particular the software package *JMP IN*, in simplifying statistical computations and analyses. While purchase of the software is not required, you may find it useful when working on your data analysis project at home or for other future analyses you may want/need to conduct later (post-stats class). You may work together on these assignments. If you do not finish the assignment in the time allotted, you are responsible for completing it on your own time. Although these assignments will not be collected, lab participation is a part of your grade and failure to attend labs will be noted.

**Exams:** The course will consist of two exams: a midterm and final. It is understood that you adhere to the Duke Honor Code (see course website for details) during both exams and all quizzes. The midterm exam will be on **Friday, June 7** and the final exam is scheduled for **Thursday, June 27** from 9 AM to Noon PM.

**Data Analysis Project and Presentation:** The goal of this project is to apply what you learn throughout the course to a dataset of your own choosing (however, it must be approved by me before you begin analyzing the data). You will use *JMP IN* for this project, so your labs each week will provide you with the necessary skills to conduct your analysis. At the end of the semester, you will inform the class of your results through an in-class presentation. Projects may be conducted individually or as a group. More information on the project and presentation will be given soon!

**Journal:** Journal entries will consist of a copy of an article (from the newspaper, a magazine, a journal, book, etc.) along with a written (typed or hand-written neatly!) summary of how statistics is used in the article to explain real world situations. You should discuss statistical techniques that you *HAVE LEARNED* throughout the course which are also used throughout the article. These entries are due on the following Mondays: **May 27, June 10,** and **June 24.** These journal entries should be brief—their purpose is to get you connected with and informed about statistical applications in everyday life! This journal also serves to help you think critically about statistics in our society today! This should be a fun activity!

“The more extensive a man’s knowledge of what has been done, the greater will be his power of knowing what to do.”—Benjamin Disraeli

**Classroom Etiquette:** Attendance, attention, and participation is expected for each class! I realize that 9:30 AM is early for a summer course, however arriving late on a regular basis is not acceptable!