



# STATISTICS 490-3 SELECTED TOPICS IN STATISTICS: DATA ANALYSIS

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**Spring 2003  
DAY COURSE**

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**Instructor: DR. L. WELDON (SSC K 10554)**

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**Prerequisites:**

STAT 350 or Consent of the Instructor. Familiarity with some statistical computer package will be assumed.

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**Textbook:**

*Visualizing Data* by W.S. Cleveland, publisher Hobart Press (1993)

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**Calendar Description:**

This course will emphasize those general aspects of data analysis that arise while analyzing particular data sets. Topics that inevitably arise include graphical analysis and summary of multivariate relationships, nonparametric smoothing, the treatment of outliers, resampling, transformations, and the role of simulation and modeling in data analysis. The use of data context to suggest non-standard methods of data analysis will also be encouraged.

**Outline:**

More than half of the class sessions will be based on the textbook, but we will also examine several additional case studies to broaden the perspective of the course.

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**Schedule:**

First Meeting: TBA

**Grading:**

Term Work: 60%  
Final Exam: 40%

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*Students should be aware that they have certain rights to confidentiality concerning the return of course papers and the posting of marks. Please pay careful attention to the options discussed in class at the beginning of the semester.*

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Revised October 2002