STAT 543: Theory of Probability and Statistics II  
Spring 2006  

Instructor:  
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Office Hours:  
M/W/F 10-11 AM or by appointment  

Assistant:  
Walt Adair  
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Office hours: T/TH 1-3 PM  

Prerequisites:  
STAT 542  

Lecture:  
M/W/F 9:00 - 9:50 AM, Sweeney 1134  

Textbook:  

References:  
1. Introduction to Probability and Mathematical Statistics  
   - by L. J. Bain & M. Engelhardt  
2. Mathematical Statistics - K. Knight  
3. Mathematical Statistics: Basic ideas and selected topics  
   - by P. J. Bickel & K. A. Doksum  

Course Description:  
The course will generally cover the following topics:  
Theory of Point Estimation (Chapters 7 & 10)  
Data Reduction Principles (Chapter 6)  
Testing of Hypotheses (Chapter 8)  
Interval Estimation (Chapter 9)  
Special Topics [Nonparametric methods, bootstrap] (Time Permitting)
Course Information

Exams: There will be two midterm exams and a final exam. Each midterms will be administered at an evening time (e.g., 7-9 PM on a Wednesday). You may use a calculator and formula sheet for the exams (more details later). If you know that you have a conflict with an exam due to circumstances beyond your control, you must notify me before the scheduled exam. Make-up exams are permitted only at the instructor’s discretion.

Homework: Homework problems will be assigned throughout the semester to provide opportunities for practice and application. Both the homework problems and their solutions will be posted on the course website. Homework will be due on Fridays, by 5:00 PM at the TA’s office. You are welcome to discuss the homework problems with other students but everyone must independently write up and submit a homework assignment (do not copy the work of others).

Grading: Grades will be based on the following criteria:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Tentative Date</th>
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<tbody>
<tr>
<td>Homework</td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>Exam 1*</td>
<td>25%</td>
<td>Wednesday, February 15, 7:00-9:00 PM</td>
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<tr>
<td>Exam 2*</td>
<td>25%</td>
<td>Wednesday, April 5, 7:00-9:00 PM</td>
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<tr>
<td>Final Exam</td>
<td>40%</td>
<td>Wednesday, May 3, 7:30-9:30 AM</td>
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* Please note that the dates for the midterm exams are tentative and may be changed based on the pace of the course. You will always be given sufficient notice of an exam. Locations of exams are to be announced.

Disability Access: If a student has a disability that qualifies under the Americans with Disabilities Act and Section 504 of the Rehabilitation Act and requires accommodations, he/she should contact the Disability Resources (DR) office for information on appropriate policies and procedures. DR is located on the main floor of the Student Services Building, Room 1076. Their phone number is 515-294-6624.