Statistics 250  Introduction to Probability and Statistics II  WS2004

Instructor: __________________________  Office: __________________________

Office hours: __________________________  Phone: __________________________

E-mail: __________________________


Prerequisite: A grade of C- or better in Stat 150, 185, 207, 215, 292, or concurrent enrollment in Stat 125.

Web site:  www.stat.missouri.edu/~stat250

Evaluation: The plus/minus system of grading will be used. The grading consists of a total of 500 points.

<table>
<thead>
<tr>
<th>Item</th>
<th>Date for MWF classes</th>
<th>Date for TR classes</th>
<th>Point Value</th>
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</thead>
<tbody>
<tr>
<td>Exam #1</td>
<td>Friday, Feb. 20</td>
<td>Thursday, Feb. 19</td>
<td>100</td>
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<tr>
<td>Exam #2</td>
<td>Friday, March 19</td>
<td>Thursday, March 18</td>
<td>100</td>
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<tr>
<td>Exam #3</td>
<td>Friday, April 23</td>
<td>Thursday, April 22</td>
<td>100</td>
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<tr>
<td>HW/Quizzes</td>
<td>(various)</td>
<td>(various)</td>
<td>(scaled to) 50</td>
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<tr>
<td>Final Exam</td>
<td>Wednesday, May 12, 6:00 – 8:00 p.m.</td>
<td>Wednesday, May 12, 6:00 – 8:00 p.m.</td>
<td>150</td>
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<td>TOTAL</td>
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<td>500</td>
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All exams MUST be taken at the scheduled time unless evidence of a legitimate, unavoidable problem is presented to your instructor at least 24 hours in advance.
**Calculators:** A calculator that will add, subtract, multiply, divide, compute factorials, and raise numbers to powers is required for the course. You will be allowed to use a calculator on all exams and quizzes. You do not need a calculator with built-in statistical functions. Your calculator may only be used to assist in mathematical computations. *Using any device to store or access other information (such as textual notes) will be treated as an act of academic dishonesty.* You **MAY NOT, under any circumstances, use a cell phone or other wireless communication device as a calculator.**

**Formula packets:** You are required to purchase a packet with formulas and tables relevant to the course at the University Bookstore. You will be allowed to use the packet on all exams and quizzes. You should write your name on the front of your formula packet, but other than your name you are NOT ALLOWED TO WRITE ON THE PACKET. Photocopies of the packet are NOT acceptable; you MUST use the packet you purchased at the bookstore. Bring this packet with you to every class. Your formula packet may be collected and examined by your instructor at any time. **Anyone caught using a formula packet which has been inappropriately altered will receive an automatic “F.”**

**Workbook:** A workbook with examples that will be used in class is available at the University Bookstore. The workbook is required and should be brought to every class meeting.

**Extra credit:** Your grade in this course will be based on three one-hour exams, one final exam, and a combination of homework and/or quizzes. **There is NO extra credit in Stat 250.**

**Complaints:** If you have a complaint regarding this course, please speak with your instructor and try to resolve the matter in an amiable fashion. If this meeting does not bring satisfaction, you may speak with the course coordinator, Dr. Larry Ries (134D Middlebush Hall, 882-7879). The University of Missouri-Columbia Undergraduate Catalog (2001-2003 edition, page 22) states: “No one may substitute personal judgement for that of the instructor in regard to the quality of the student’s work.” You should always discuss matters with your instructor before appealing to other parties.

**Drop deadlines:** Drop without a grade – February 23; Withdraw with grade of *W* or *F* – April 9; Withdraw from the University – May 6.
Tutoring: The Learning Center (100 Student Success Center, 882-2493) will sponsor free help sessions. The time and place will be announced in class.

Academic honesty: Academic honesty is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person's work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards academic dishonesty as an extremely serious matter, with serious consequences that range from probation to expulsion. When in doubt about plagiarism, paraphrasing, quoting, or collaboration, consult the course instructor. If it is determined that a student has cheated, he or she will be given zero points on the assignment in question and be turned in to the Provost for disciplinary action. In addition, by committing an act of academic dishonesty, a student places doubt on the legitimacy of all work completed in the course beyond the act of academic dishonesty. As a result, a student who commits an act of academic dishonesty may be given a failing grade in the course regardless of that student’s performance beyond the act of academic dishonesty.

Academic accommodations: If you need accommodations because of a disability, if you have emergency medical information, or if you need special arrangements in case the building must be evacuated, please inform your instructor as soon as possible (privately, either after class or during his or her office hours). To request academic accommodations (for example, a note-taker), students must register with Disability Services (AO38 Brady Commons, 882-4696). Disability Services is the campus office responsible for reviewing documentation provided by students requesting academic accommodations, and for planning accommodations in cooperation with students and their instructors, as needed and consistent with course requirements. All academic accommodations must be provided through disability services. If, for example, you are entitled to additional time to take the exams, you must take the exams at the Disability Services office. Under no circumstances can your instructor allow you extra time (or other accommodations) in the regular exam setting.
Topics Scheduled to be Covered

Core Material:
- Review of estimation and hypothesis testing from Stat 150 (Chapters 8 and 9)
- Introduction to Minitab
- Chapter 10 – Simple Linear Regression (sections 10.1 – 10.9)
- Chapter 11 – Multiple Regression and Model Building (sections 11.1 – 11.11, 11.13, 11.14)
- Chapter 14 – Design of Experiments and Analysis of Variance (sections 14.1 – 14.5)
- Chapter 15 – Nonparametric Statistics (sections 15.1 – 15.6)

Selected topics from the following material may be covered as time permits:
- Chapter 12 – Methods for Quality Improvement (sections 12.1 – 12.8)
- Chapter 13 – Times Series: Descriptive Analyses, Models, and Forecasting (sections 13.1 – 13.9)

Final Exam (comprehensive): Wednesday, May 12, 6:00 – 8:00 p.m.