

**STATISTICS 500: Applied Statistics, Summer II 2005**  
**MTWHF: 134 Cedar\*\***

**Instructor:** Dr. Andrew (Andy) Wiesner

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**Office Hours:** Tuesday, Wednesday and Thursday 11:00-12:00 and by appointment

**\*\*Room Change!! The classroom location has been changed to 134 Cedar for all meeting times!!**

**Objective:** This course is designed as an introduction into applied statistics at the graduate level. Students are expected to have some base knowledge of statistics from a prior course. This course is also designed to assist students in the fundamentals of statistics in preparation for future graduate level statistics courses.

**Textbook:** *An Introduction to Statistical Methods and Data Analysis* by R. Lyman Ott and Michael Longnecker (5th edition). The textbook is on reserve in Physical and Math Science Library (PAMS) at 201 Davey Lab.

**Software:** MINITAB will be the statistical software required for this course. MINITAB Version 14 for Windows is available in all University public computer labs. A Student Minitab Version 14 is also available for purchase at the computer stores. You are not required to purchase the Student version. However, if you currently use Version 12 and you plan on completing assignments off-campus I urge you to purchase a copy of Version 14. There are several advancements in the newer package.

**Assessment Plan:** The assessment of students will be determined by their performance on three assignment areas: quizzes, homework, and exams.

**Quizzes (30% of final grade):** There will be 14 quizzes delivered during this course. You will be able to drop your lowest percentage score on one of them. Therefore, the mean of your best 13 of 14 percentage scores will constitute your quiz grade. The quizzes will be delivered either through ANGEL (<https://cms.psu.edu>) or on paper, and will be completed in class. The first quiz will be given on Friday, July 1. Starting with that Friday, a quiz will be presented every other day through Tuesday, August 9. These quizzes will consist of 4 to 6 multiple choice questions and you will be allowed to use your book and notes. The purpose of the quizzes is to get you to read the textbook in an effort to help prepare you for class and keep you on track for the exams.

**Homework (10% of final grade):** The assigned homework problems can be found on ANGEL. They will be due each Wednesday **in class**. The problems will reflect material to be covered that week. There will be 6 homework assignments. The grading of homework will be done using a "+ / -" method. If all problems are attempted and all work is shown the student will receive a "+", or a 100. Otherwise, the homework will

receive a “-“ or a 0. Most problems will involve using MINITAB. A Guide to MINITAB Basics can be found on ANGEL. **All handed in assignments involving MINITAB must include the output with the answers highlighted.** Solutions to homework will be available on ANGEL following the due dates. In an effort to ease your printing load, a drop box will be created on ANGEL for you to submit the homework if you wish to create them as a word document or pdf. Please submit only **one** file per homework.

**Exams (30 % each):** Two (2) exams will be given during the semester. Although each exam will reflect material most recently covered, the material is cumulative in nature. No make-up exams will be allowed.

**Late Assignments and missed exams:** Since solutions will be available and the lowest score will be dropped, no late quizzes or homework will be accepted. No make-up exams will be allowed.

**Exam Schedule:**

**Exam I:** Wednesday, July 20, IN CLASS

**Exam II:** Wednesday, August 10, IN CLASS

**Grading Scale (subject to change):** The final letter grading will follow the standard University guidelines and are as follows:

F	D	C	C+	B-	B	B+	A-	A
0	60	70	77	80	83	87	90	93

**Collaboration:** Although you are expected to complete the work on your own, I understand that a certain amount of collaboration may occur. However, you must turn in your own work which presumably reflects your understanding of the material. I advise all of you to consult the Penn State Academic Integrity Policy at:

<http://www.science.psu.edu/academic/Integrity/index.html>