

STAT 401 Experimental Methods

Section 001

Spring 2005

Class:	MF: 9:05 – 9:55 AM, 260 Willard; W: 9:05 – 9:55 AM, 113 IST		
Instructor:	Trent Gaugler	TA:	Sasiprapa Hiriotte
Office	301 Thomas	Office	316 Thomas
Office Hours	TR 12:30-1:30	Office Hours	MW 1:30-2:30
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Course Material:

Textbook: *Probability and Statistics for Engineering and the Sciences* by Devore, 6th Edition
Calculator: scientific calculator

PLEASE BRING YOUR BOOK AND CALCULATOR TO CLASS EVERYDAY!

Course Objective:

To familiarize students with the basic concepts and ideas of statistics and probability. To provide training in the use of statistical methods and graphics for the analysis and presentation of data encountered in engineering and other disciplines.

Web Page:

Class announcements and materials will be regularly posted on ANGEL, so it is recommended that you check the site frequently. Such materials as lecture notes, practice problems, homework and exam solutions, etc. will be posted.

Class Notes:

In most cases, I will provide you with typed notes (handed out and posted on ANGEL), which will hopefully allow you to think about the material as we discuss it instead of writing down notes at a furious pace. The typed notes that I provide **will not be complete**. There will be pieces missing that you will need to add from our class discussion. If you miss class (with or without a legitimate excuse), it is your responsibility to find a classmate and copy the notes that you missed.

Homework:

Application of the ideas and concepts to real data is the focus of the course. Thus, homework will be an integral part of the class. The homework for a particular chapter will be assigned when we BEGIN discussing that chapter. In most cases, the homework for a particular chapter will be due **at the beginning of the class period following the end of our discussion of that chapter**.

Homework will be graded based on **completeness and accuracy (mostly for accuracy)**. Some points will be awarded just for having completed (correct or not) the homework. Then, several parts of the assignment will be graded for accuracy.

After the first few weeks of the course, we will start using Minitab to complete lab activities. We will either meet in a computer lab or we will go through the activity together in class.

Quizzes:

I reserve the right to give short (announced or unannounced) quizzes throughout the semester on recent material. These quizzes will be worth 10% of the grade **AT MOST**.

Exams and Final:

There will be two exams, one covering Chapters 2-5 (Exam 1 on **Friday, February 18***) and another covering Chapters 1 and 7-9 (Exam 2 on **Friday, April 1***). The final exam will cover topics from Chapters 10-12 but will also include some questions from the material on the first two exams.

These dates are tentative

Grading Appeals:

From the day that any graded material is returned to you, you have two class periods to bring any errors in grading to my attention. After that, no grade adjustment will be made. So please review any graded materials upon receiving them.

Evaluation:

Assessment	Points	Percent
Exams (2)	350	30%
Final	250	20%
Homework / Activities / Quizzes	400	50%
Total	1000	100%

Grading Scale:

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

Makeup Policy:

- Homework will not be accepted past the due date unless you make other arrangements with me **BEFORE** the due date. Homework is due at the beginning of class, and will be considered late after that (i.e., do not use class time to finish your assignment).
- If you must miss an exam, see me **BEFORE** the date of the exam in order to set up a conflict exam time. Otherwise you will receive a zero for the missed exam.
- If you are ill on a day that a HW is due or an exam is scheduled, make sure you let me know via email **THAT DAY**. If you do not have access to email, you can call my office.

Academic Integrity:

All Penn State and Eberly College of Science policies regarding academic integrity apply to this course. See <http://www.science.psu.edu/academic/Integrity/index.html> for details.

Cheating is unacceptable. If the TA or I suspect you of cheating, you will receive a zero on that assignment, quiz or test.