

STATISTICS 401 Experimental Methods I
Section 003 Spring 2005 01/10/2005-04/29/2005
<http://www.stat.psu.edu/~hma/Stat401.htm>

- Meeting Times:** M 8:00A – 8:50A 134 Cedar; WF 8:00A – 8:50A 100 Life SCI
- Instructor:** Yuejiao (Heather) Ma, Thomas 331B, 865-8045, Hma@stat.psu.edu
Office Hours: MW 3:30 pm– 5:00pm; or by appointment
- Teaching Assistant:** Kim, Min Kyung, 333 Thomas Bldg, 863-3374, mzk136@stat.psu.edu
Office Hours:
- Textbook:** Devore, Jay. (2004) *Probability and Statistics for Engineering and the Sciences*. 6th Edition

<http://www.stat.psu.edu/~hma/Stat401.htm>
- Home Page:** All class materials, including homework, solutions and lecture notes are posted on this website, please check regularly.
- Course Content:** To introduce students the basic concepts of statistics and probability, and application of these concepts to engineering and other sciences. This course will cover topics in random variables (discrete and continuous); probability density functions; point estimation; hypothesis testing; one-way and two-way ANOVA; simple linear regression. They are covered in Chapter 1 through 12 of Devore. Adjustment is expected based on the class progress.
- Prerequisite:** Math 141 or Math 111.
- Homework:** Homework will be assigned regularly and due one week after assigned date. It will be partially graded. To get full credit, you need to show all your work and hand on time. You can work in teams (not exactly same answer), just not during the in-class quiz. The lowest two homework scores will be dropped.
- Quiz:** There will be one, in class, announced or unannounced closed-book quizzes each week. The quiz includes 1-2 questions from the most recent homework and will last about 10 minutes.

Two midterms and one final will be given in class and closed-book.
- Exam:** For two midterms, you are allowed to bring one 8.5x11 double-sided formula sheet for each exam. The first exam will cover first four chapters and will occur roughly after the end of Chapter 4 .The second exam will cover chapters 5 to 8 and will occur roughly after the end of Chapter 8. There may be a take-home part of each exam. If, due to sickness, family emergency, etc., you can not come to class during any exam day, you should contact the instructor ahead of time in order to make alternate arrangements. There will be no make-up exams for those

who miss one without advance notice of the instructor.

The final exam will be comprehensive. It will be closed-book but you can bring three 8.5x11 double-sided formula sheets.

Homework	Quiz	Mid-term 1	Mid-term 2	Final	Total			
30%	10%	15%	15%	30%	100%			
93%	90%	87%	83%	80%	77%	70%	60%	<60%
A	A-	B+	B	B-	C+	C	D	F

Grading:

Subject to adjustment.

Computing:

Statistics involves the processing of large sets of numerical data. Minitab will be an integral part of the homework during the later part of the course. Minitab is a statistical software available on the Penn State CAC Network. Once you open the application, you will see: *Welcome to Minitab MTB>, PressF1 for HELP.* Familiarize yourself with the software.

Remarks:

- ✓ None of homework will be graded until the registration is complete.
- ✓ Make-up exams will be given only if presenting a valid, verifiable, and university approved document for absence.

Academic Integrity:

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