

STATISTICS 401, Section 001
Experimental Methods, Spring 2004
SYLLABUS

COURSE OBJECTIVE: To familiarize students with the basic concepts of statistics and probability and to train students in the application of these concepts to engineering and other sciences.

SCHEDULE: MWF 9:05–9:55, 260 Willard (Some Wednesdays we will meet in 214 Boucke)

INSTRUCTOR: David Hunter <dhunter@stat.psu.edu>, 863-0979

I am easiest to reach by email. Please don't hesitate to write me email if you have questions.

INSTRUCTOR'S OFFICE HOURS: 310 Thomas Building, Wed 12:30–1:30 and Thur 1:30–2:30

TEACHING ASSISTANT: Yu Wang, wangyu@stat.psu.edu

REQUIRED TEXTBOOK: Devore, Jay. *Probability and Statistics for Engineering and the Sciences*, 6th edition. Please bring your textbook with you to class every day.

REQUIRED CALCULATOR: Any scientific calculator will do. Please bring your calculator with you to class every day.

PREREQUISITE: Math 141 or Math 111

COURSE WEBPAGE: <http://www.stat.psu.edu/~dhunter/401>

Class materials, including assignments, will be posted on the webpage.

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 accuracy). Some points will be awarded just for having completed the homework, correct or not. 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 meet in 214 Boucke on lab Wednesdays, which will be announced in class and posted on the web page no later than the end of Monday's class.

Homework and lab assignments will be posted on the course webpage.

QUIZZES: I reserve the right to give simple, in-class, announced or unannounced quizzes. If quizzes occur, they will cover recent homework only. Quizzes are guaranteed not to account for more than 10% of the total grade, though they might account for much less than that.

EXAMS AND FINAL: There will be two exams, one covering Chapters 2-5 and another covering Chapters 1 and 7-9. The final exam will cover Chapters 10-12 and 16 but will also include some questions on material covered by the first two exams.

Toward your overall grade, the final exam will contribute 5% from Chapters 2-5, 5% from Chapters 1 and 7-9, and 20% from Chapters 10-12 and 16.

EVALUATION AND GRADING SCALE:

Assessment	Percent		
Exam 1	15%	93%	A
Exam 2	15%	90%	A-
Homework / Labs / Quizzes	40%	87%	B+
Final	30%	83%	B
		80%	B-
		77%	C+
		70%	C
		60%	D
		< 60%	F

ABSENCES: If you know that you will miss a class, it is a good idea to let me know about it **BEFORE** class; see note on makeup quizzes below.

MAKEUP POLICY: No homework or labs may be turned in after the due date unless you have made specific arrangements with me **BEFOREHAND**. No quizzes or exams may be made up unless you have made specific arrangements with me **BEFOREHAND**. A makeup test or quiz will not always be allowed even if you contact me beforehand; however, if appropriate documentation for an absence is provided, the grading scale may be adjusted to reflect the missing quiz or exam.

Since quizzes are not always announced, you should contact me if you know you are going to be absent from class **BEFORE** class. Email <dhunter@stat.psu.edu> is the best way to reach me.

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.