

PORTLAND STATE UNIVERSITY
Department of Mathematics & Statistics
FALL TERM 2009

28.September through 4.December 2009
STAT 451/551 (CRN: 13230/13235) **M & W 16:40 - 18:30**
Applied Statistics for Engineers and Scientists **NH 375**

Instructor: Professor M. Tableman
333 Neuberger Hall email: tablemanm@pdx.edu
503-725-3636 webpage: www.mth.pdx.edu/~mara

Office Hours:
M & W 15:30–16:30 & by appointment.

Textbook: Devore, J.L. (2008), *Probability and Statistics for Engineering and the Sciences, Seventh Edition*, Duxbury.

Course Requirements:

1. Take-Home Assignments which incorporate the statistical software package MINITAB (30%).
2. Midterm (30%): Wednesday, November 4.
3. Final Exam (40%): Monday, December 7, 17:30 – 19:20

Course Syllabus:
Goal is to cover Chapters 1 through 8.

The “Big Picture” course objectives for participants are

- to learn the basic tools for describing and analyzing data generated from a statistical experiment,
- to learn some basic designs of statistical experiments,
- to gain a basic understanding of data analysis and statistical methods,
- to apply this understanding to their fields of study,
- to use this understanding to improve inferences drawn from statistical studies, and
- to critically evaluate the designs of statistical studies and how the results from these studies are reported in the literature including research journals, newspapers, and magazines.

Comments:

1. Attendance is mandatory. But if ill, please stay home. Alert me via email that you are ill so I can record your excused absence.
2. Absolutely no make-up exams and no incomplete grades. (See Portland State’s 2009-2010 Bulletin for policy regarding an IN-COMPLETE grade.)

3. For those of you taking this course P/NP, Portland State's Bulletin 2009-20010 states that a PASS GRADE IS EQUATED TO a C⁻ OR BETTER.
4. All exams are closed-book. You will be allowed a cheat-sheet.
5. You are responsible for everything discussed in class and in the textbook. In class lecture and discussion is where one often finds clues as to what will appear on the exam.
6. Answers to selected odd-numbered exercises are provided beginning on page 691. Do as many exercises as you have time for. This is one of the keys to performing well on in-class exams. Practice makes perfect!
7. To be eligible for a passing grade, **EVERY** take-home assignment must be turned in to me. Points will be docked when assignment is turned in late.
8. There is no place for profanity or use of foul language in my classroom, in my presence, and in my office. I thank you in advance for respecting me and your fellow classmates.

USE of COMPUTER LAB in NH 465:

MINITAB installed on PC's in Math & Stat Computing Lab, and in most computing labs on campus; e.g, lab in the library, in the Broadway Bldg, in the basement of Neuberger and Smith Halls.

NOTE:

To get it... <http://www.e-academy.com/minitab>. There is a 30-day free trial and a very good price for students.