

STAT 100, Sect 1: Statistical Concepts and Reasoning

Spring 2011 Official Course Syllabus

General description of the course: Statistics is the art and science of extracting information from data concerning a question or hypothesis of interest. The objective of this course is to introduce the student to statistical reasoning and interpretation of data analysis.

Textbook: *Seeing Through Statistics, Third Edition*, by Jessica M. Utts, published by Duxbury Press. We will cover most of this book.

Schedule: MWF 3:35-4:25 in: 10 Sparks Building

Website: The Angel website: cms.psu.edu

Instructor: James L Rosenberger <JLR@psu.edu>, 323F Thomas Bldg, 814-865-1340
Office hours: Wednesday 10:00am-11:30 and by appointment.

Teaching Assistant: Brittany M Fischer <bmf5007@psu.edu>, 321 Thomas Building,
Office hours: Tuesday 2:30 – 4:30pm and by appointment.

Required Work: There will be a total of 500 points (100%) in the course:

- Three in-class mid-semester examinations, each worth 75 points (15% each) [45%]
- Three practice (computer based) exams each worth 15 points (3% each) [9%]
- A comprehensive final exam, given final exam week, worth 100 points (20%) [20%]
- Ten randomly scheduled in-class quizzes, each worth 5 points (1% each) [10%]
- Eight homework assignments each worth 10 points (2% each) [16%]

Final Grades: Final letter grades will be determined as follows:

B+: 88-89% C+: 78-80%

A : 94-100% B : 84-87% C : 70-77% D : 60-69% F: 0 – 59%

A-: 90-93% B-: 80-83%

Exams: The mid-semester exams are scheduled on Wednesdays: February 2, March 2, and April 6.
The final Exam is scheduled during exam week.

All exams will be in multiple-choice format and will use computer scan-tron (bubble) sheets. To each exam, you should bring:

1. No. 2 pencils to complete your scan-tron sheet, and
2. Your Penn State University student ID card.

You may bring a calculator with the square root function, but there are a minimum of calculations.

Practice computer based exams: The week before each mid-semester exam you will be given a computer based practice exam that you can take in a computer laboratory.

Quizzes: Approximately 13 randomly scheduled, in-class quizzes will be given, and your best 10 scores will count toward the final score. Each quiz is worth 5 points. The extra quizzes allow you to miss lectures for legitimate reasons, such as illness or sports events without the need to bring an excuse. However, it is to your advantage to attend class regularly throughout the semester.

Reading Assignments: Reading assignments and problems from the text will be assigned each day, but these problems will not be collected. Answers to some of these homework problems are in the back of the text.

Homework: Homework will be assigned most weeks when there is no exam. The assignment will be given on Monday and will be due on Friday and must be submitted on Angel before class. These assignments will include problems from the textbook and Minitab examples.

Extra credit: There will be occasional chances to earn one point of extra credit point for completing small assignments announced in class or through the Angel web site. There will be no individual extra credit given, only when everyone has the same opportunity.

Course Rules:

1. No late or make-up exams will be given for ANY reason. If you must miss any exam, you should provide a valid reason **IN WRITING** to the instructor **PRIOR TO THE EXAM**. If you have to miss an exam at the last minute for some reason, be sure to notify the instructor prior to the exam time by email or by leaving a phone message (in these cases, you should back up your excuse with written documentation). If the instructor has approved your written excuse, your final grade will be calculated without the missed exam.
2. No make-up quizzes will be given for ANY reason. You are allowed to drop at least three quiz grades, which should cover any excused absences that may result in a missed quiz.
3. Students are responsible for all announcements and supplements given within any lecture.
4. Academic Integrity Statement: All Penn State and Eberly College of Science policies regarding academic integrity apply to this course. See <http://www.science.psu.edu/academic/Integrity/Policy.html> for details.
5. If you need to leave class early, please sit in the rear and leave as quietly as possible.
6. Please be courteous to your classmates and keep extra noise to a minimum. Do not read newspapers or other unrelated material during class.
7. Please turn off all cell phones and pagers during class.
8. It is Penn State's policy to not discriminate against students with documented disabilities in its educational programs. If you have a disability related need for modifications in this course, contact your instructor and the Office for Disability Services (located in 116 Boucke Building at University Park). See <http://www.equity.psu.edu/ods/> for more information.
9. [Penn State's Policies](#) are referenced here for your easy reference.
10. Please be familiar with and abide by the [College of Science's Code of Mutual Respect and Cooperation](http://www.science.psu.edu/climate/code-of-mutual-respect-and-cooperation-1) <http://www.science.psu.edu/climate/code-of-mutual-respect-and-cooperation-1>