



STATISTICS 100: SECTIONS 002-004
STATISTICAL CONCEPTS AND REASONING
Spring 2008

COURSE DESCRIPTION: Welcome to Stat 100. Statistics is the art and science of using sample data to make generalizations about populations. The objective of this course is to improve a student's ability to assess statistical information in both everyday life and in other University courses. Topics covered in this course include methods for:

- collecting and summarizing sample data
- evaluating the accuracy of estimates obtained from sample data, surveys and polls
- making statistical inferences about populations

What you should discover is that statistics is not just another math course. While you will be exposed to new terminology and concepts, sometimes you will find that we just apply common sense when solving everyday problems that involve numbers. For the most part, this course requires few mathematical calculations. There are no prerequisites for Stat 100.

INSTRUCTOR:

- **Name:** Professor James L Rosenberger
- **Office:** 323F Thomas Building
- **Office Hours:** see calendar on course web site
- **Phone:** (814) 865-1340 Please leave a message or email through Angel
- **Email:** Send all email inside **Angel Website** under "Communicate"

TABLE 1: ROOMS & TIMES

Section	Lecture (Mon & Fri)	Computer Labs (Wed)
Section 2	101 Thomas: 8:00 AM	111 Boucke: 12:20 PM
Section 3	101 Thomas: 8:00 AM	214 Boucke: 1:25 PM
Section 4	101 Thomas: 8:00 AM	214 Boucke: 8:00 AM

REQUIRED TEXTBOOK:

Seeing Through Statistics, 3rd Edition, by Jessica Utts
We will cover most of this book.

REQUIRED Materials:

- **Pencil:** bring to all lectures, quizzes & exams
- **Calculator:** may use on exams; bring to Wed Lab
- **Posted PowerPoint Slides:** bring to class on Mon & Fri. (I highly recommend a binder to organize your slides.)

TEACHING ASSISTANT: This class will have a lab teaching assistant (TA) and grader. The name, office location, & office hours will be posted on the course web site. The assistant will:

- oversee the Wednesday labs in 111 Boucke (sect. 2) and 214 Boucke (sects. 3 ,4)
- handle all grade related issues including UTS reports / scantron problems
- be a useful source for help when having problems during office hours

COURSE WEB SITE (ANGEL): <https://cms.psu.edu>: On this web site, you will find posted:

- course syllabus & instructor/ TA information
- homework assignments and solutions to assigned homework problems, exams, & quizzes
- study guides for exams
- power point slides for each lecture (bring to class on Monday & Friday)
- class surveys, announcements & email correspondence (check email **daily** on Angel)
- lab activities & lab activity quizzes: available for review after completed

HOMEWORK:

Even though you will not hand in any of the assigned homework problems, you will be expected to understand these problems because some of these problems **will directly appear** on activities, quizzes, and exams. We will go over certain homework problems during class. **All homework solutions** are posted on the course web site. Please make use of them.

WEDNESDAY COMPUTER LAB CLASS:

- Complete eight lab activities in groups of 2-4 students,
- take an online lab activity quiz at the end of lab (*must be taken during lab in the assigned classroom* - scores that come from computers outside the classroom and/or at an inappropriate time will be deleted),
- keep best six lab activity quiz scores (allows for two excused absences),
- *no make-ups allowed under any circumstances* (since allows 2 dropped scores),
- information from these lab activities & lab activity quizzes will appear on both individual and group quizzes and exams, and
- certain Wednesday laboratory periods will also be used for quizzes & exams.

EXAMS & QUIZZES:

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

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

You may also bring calculators.

COURSE AGREEMENT: This syllabus serves as an agreement that begins on the first day of class & ends upon completion of the scheduled final. With this course, you are responsible for:

- anything discussed in class & posted on the **ANGEL** website, including course email
- sending & replying to all course email inside **Angel** under "**Communicate**"
- taking all exams and quizzes, including the final, during the scheduled time - includes being on time & not oversleeping (this is an eight o'clock class!) Buy an alarm clock.
- coming to class **prepared** to learn (at both lecture & lab)
- accepting the limited make-up policy
- seeking appropriate & **timely** help if having problems
- accepting that final grades will **not** be changed for purposes of maintaining financial aid and/or academic progress. (also final grades will **not** be curved)
- accepting that individual extra credit will not be allowed
- keeping track of all of your grades in ANGEL and timely reporting of any errors
- accepting that deferred grades will only be considered for unavoidable circumstances that may occur near the end of the semester
- finding enough time to make the appropriate commitment to the course

ACADEMIC INTEGRITY:

- Includes a commitment to not engage in or tolerate acts of falsification, misrepresentation or deception. See: <http://www.science.psu.edu/academic/Integrity/>
- Such acts of dishonesty violate the fundamental ethical principles of the Penn State community and compromise the worth of work completed by others.
- This course will follow the guidelines found under Academic Integrity (Section 49-20) of the University Faculty Senate Policies for Students. See: <http://www.psu.edu/ufs/policies/>

DISABILITY POLICY: It is Penn State's policy to not discriminate against qualified students with documented disabilities in its educational programs. If you have a disability-related need for modifications in the course, contact both the instructor and the Office for Disability Services (116 Boucke) at the beginning of the semester.

TABLE 2: COURSE REQUIREMENTS:

Requirements	Pts/Effort	Total Pts	Percent of Grade
Mid Semester Exams (2)	75	150	25%
Individual Quizzes (4): keep best 3	40	120	20%
Group Quizzes (4): keep best 3	20	60	10%
Lab Activity Quizzes (8): keep best 6	20	120	20%
Final Exam during exam week (Comprehensive)	150	150	25%
Total		600	100%

FINAL GRADES: Final grades will be based on 600 possible points, i.e. (600 points = 100%). Point ranges for final grades are found in **Table 3**. Do not expect these point ranges to be lowered for a curve. When necessary, (although not often), adjustments will be made to quizzes or exams during the semester.

MAKE-UP POLICY: In general make-ups will not be given. *Specifically:*

- **Lab Activity Quizzes:** Because drops are in place & the quizzes are automated, **no make-ups will be allowed under any circumstance.**
- **Individual & Group Quizzes:** If you have a University-related excuse or religious conflict, you must provide appropriate documentation prior to the quiz. Arrangements will be made at that time. All other circumstances, including oversleeping, will not be considered because of one quiz being dropped. **Late-Make-ups will not be given under any circumstance.**
- **Exams:** If you have a University-related excuse or religious conflict, you must provide appropriate documentation prior to the exam. Arrangements will be made at that time. If you are legitimately sick or have a family emergency, you will be able to use the percent that you receive on the final as a replacement for the missed exam; however, this option can only be used with one exam. **Late exams will not be given under any circumstance.**
- You will not be able to negotiate missed exams and quizzes at the end of the semester
- You must take the final at the time scheduled by the university. **Do not make plans to leave early.**

TABLE 3: POINT RANGES FOR FINAL GRADES

Final Grade	Point Totals	Percents	Final Grade	Point Totals	Percents
A	(555-600)+ points	(92.5 to 100+)%	C+	(450-476) points	(75.0 to 79.4)%
A-	(537-554) points	(89.5 to 92.4)%	C	(417-449) points	(69.5 to 74.9)%
B+	(519-536) points	(86.5 to 89.4)%	D	(354-416) points	(59.0 to 69.4)%
B	(489-518) points	(81.5 to 86.4)%	F	< 354 points	< (59)%
B-	(477-488) points	(79.5 to 81.4)%			

TABLE 4: OTHER IMPORTANT DATES

Date: 2008	Event
Mon Jan 14	First class - Bring posted power point slides to class on Mon & Fri
Mon Jan 21	No Class - Martin Luther King, Jr. Day
M-F Mar 10-14	No Class - Spring Break
M-F May 5-9	Finals Week - Final Exam to be scheduled this week