



**STATISTICS 100: SECTIONS 2-4
STATISTICAL CONCEPTS AND REASONING (GQ)
FALL SEMESTER 2006**

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 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
- 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 will not require any mathematical calculations. There are no prerequisites for Stat 100.

INSTRUCTOR:

- **Name & Office:** Patricia M. Buchanan & 309 Thomas Building
- **Office Hours:** By Appointment (see availability schedule on course web site)
- **Phone:** (814)-865-6266
- **Email:** *must always* send email inside **Angel Website** under “**In Touch**”

TABLE 1: ROOMS & TIMES

Section	Lecture (Mon & Fri)	Computer Labs (Wed)
Section 2	101Thomas: 12:20 PM	214 Boucke: 8:00 AM
Section 3	101Thomas: 12:20 PM	214 Boucke: 9:05 AM
Section 4	101Thomas: 12:20 PM	214 Boucke: 10:00 AM

REQUIRED TEXTBOOK:

Seeing Through Statistics, 3rd Edition, by Jessica Utts
Chapters Covered this Semester (not always in order): Chapters 1-5, 7-13, 16, 18-26

REQUIRED Materials:

- **Pencil:** bring to all lectures, quizzes & exams
- **Calculator:** can use one provided on computer (or bring to Wed Lab)
- **Posted Powerpoint Slides:** bring to class on Mon & Fri

TEACHING ASSISTANT: This class will have one teaching assistant (TA). The name, office location, & office hours of this TA will be posted on the course web site. This TA will:

- oversee the Wednesday labs in 214 Boucke
- handle all graded related issues including UTS reports/scantron problems and calculations
- be a source for help when having problems during office hours

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.

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

- course syllabus & course calendar
- solutions to assigned homework problems, exams, & quizzes
- study guides for exams (posted at least one week in advance)
- power point slides (bring to class on Monday & Friday)
- announcements & email correspondence
- (instructor & TA) information & availability
- lab activities & lab activity quizzes: available for review after completed

WEDNESDAY COMPUTER LAB CLASS:

- complete eight lab activities in groups of 2-4 students.
- take an on-line lab activity quiz at the end of lab (**must be taken in the assigned classroom** – quiz scores that come from computers outside the classroom and/or at an inappropriate time will be deleted)
- keep best six lab activity quiz scores
- **no make-ups allowed under any circumstances** (since automated & includes drops)
- information from these lab activities & lab activity quizzes will appear on both (individual and group) quizzes and exams.
- certain Wed Lab's will also be designated for quizzes & exams.

IN-CLASS LECTURE POP QUIZ: Throughout the semester eight unannounced quizzes will be during the lecture. The best six scores will count towards your final grade. No make-ups will be allowed under any circumstances. You can also not take the quiz in advance.

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
- sending & replying to all course email inside **Angel under "In Touch"**
- taking all exams and quizzes, including the final, during the scheduled time – includes being on time & not oversleeping
- coming to the 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 grades will **not** be curved)
- accepting that individual extra credit will not be allowed
- keeping track of all of your grades (instructor does not calculate grades)
- accepting that deferred grades will only be considered for circumstances that occur near the end of the semester
- finding enough time to make the appropriate commitment to the course

TABLE 2: COURSE REQUIREMENTS:

Requirement	Pts/Effort	Total Pts	Percent of Grade
Exams (2)	100 pts	200 pts	28%
Individual Quizzes (4): keep best 3 out of 4	40 pts	120 pts	17%
Group Quizzes (4): keep best 3 out of 4	20 pts	60 pts	9%
Lab Activity Quizzes (8): keep best 6 out of 8 (no make-ups/automated)	30 pts	180 pts`	26%
In-Class Lecture Pop Quiz (8): keep the best 6 – no make-ups	10 pts	60 pts	9%
Final Exam (Selectively Comprehensive)	80 pts	80 pts	11%
Total		700 pts	100%

TABLE 3: IMPORTANT DATES (also posted on Calendar found on Course Web Site)

Course Requirements	Dates
Exams: <ul style="list-style-type: none"> limited make-up policy 	<ul style="list-style-type: none"> Wed Oct 11 Mon Nov 20 (do not make plans to leave early)
Individual & Group Quizzes <ul style="list-style-type: none"> keep best 3 out of 4 limited make-up policy 	<ul style="list-style-type: none"> Wed Sept 20 Wed Oct 25 Wed Nov 8 Wed Nov 29
Lab Activities Quizzes <ul style="list-style-type: none"> keep best 6 out of 8 no make-ups under any circumstances must be taken in classroom during the scheduled lab 	<ul style="list-style-type: none"> Wed Sept 13 Wed Sept 27 Wed Oct 4 Wed Oct 18 Wed Nov 1 Wed Nov 15 Wed Dec 6 Wed Dec 13
Final Exam (During Final's Week)	<ul style="list-style-type: none"> TBA on Elion (do not make plans to leave early)

FINAL GRADES: Final grades will be based on 700 possible points, i.e. (700 points = 100%). It will be possible to achieve additional points on exams so that your final total could exceed 700 points. Point ranges for final grades are found in **Table 4**. Do not expect these point ranges to be adjusted. Grades will not be curved because adjustments will be made along the way if appropriate to quizzes and exams.

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

- Lab Activity Quizzes:** no make-ups under any circumstance because drops are in place & the quizzes are automated
- Individual & Group Quizzes:** If you have 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 University-related excuse or religious conflict, you must provide appropriate documentation prior to the exam. Arrangements will be made at this time. If you are legitimately sick or have a family emergency, you will have to use the percent that you receive on the final as a replacement for the missed exam. (However, this can 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
- In-Class Lecture Pop Quizzes:** no make-ups are given under any circumstances because two are dropped (also can't take early)

TABLE 4: POINT RANGES FOR FINAL GRADES

Final Grade	Point Totals	Percents
A	(648-700)+ points	(92.5 to 100+)%
A-	(627-647) points	(89.5 to 92.4)%
B+	(606-626) points	(86.5 to 89.4)%
B	(571-605) points	(81.5 to 86.4)%
B-	(557-570) points	(79.5 to 81.4)%
C+	(525-556) points	(75.0 to 79.4)%
C	(487-524) points	(69.5 to 74.9)%
D	(413-486) points	(59 to 69.4)%
F	< 413 points	< (59)%

TABLE 5: OTHER IMPORTANT DATES

Date	Event
Fri Oct 6	No Class – University Study Day
Tues Nov 21	No Class – Start Thanksgiving Break
Fri Dec 15	No Class – Instructor will hold office hours

ACADEMIC INTEGRITY:

- Includes a commitment to not engage in or tolerate acts of falsification, misrepresentation or deception.
- 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.

THE PENN STATE HONOR CODE:

“A good name is earned by fair play, square dealing and good sportsmanship in the classroom, on the athletic field and in all other college relations. We earnestly desire that this spirit may become a tradition at Penn State.”

COURSE CONDUCT: For an effective class experience:

- Take time to listen to what is said
- One person speaking at a time

- Leave your cell phones and pagers turned off
- Each person has insights to offer
- Ask questions – your question may open the door to understanding for others
- Respect each person’s contributions
- Never forget that your education continues after this class ends

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.

Best Wishes for Much Success in Stat 100

Remember this is just not another math class

Stat 100 is a literacy course which is not as technical as Stat 200

Come to this course with open mind – hopefully you will be pleasantly surprised

Also make an effort to get to know the instructor and/or the TA’s (a picture of you with your Angel email always makes a nice impression)

Good Luck With the Course