

STATISTICS 100: Statistical Concepts and Reasoning

Instructor: Dr. Andrew (Andy) Wiesner

Office: 308 Thomas Building

Phone: 814-863-5653

Email: Use ANGEL email system under Communicate tab

Office Hours: Tuesday, 10:15 to 12:00

Email: Use ANGEL email system under Communicate tab. Emails received outside of ANGEL may go unanswered! **NOTE:** If you have your ANGEL email forwarded to another internet account then hitting reply to that email will NOT reply through ANGEL but instead in webmail.

Collaboration and Academic Integrity: You are encouraged to work together on the quizzes and practice problems. Working together is defined as working only with students currently registered in Sections 1, 2 or 3 of Stat 100. Violations of this policy will be treated as transgressions against university academic policy. Materials that will be considered violations consist of, but are not limited to, internet sites beyond ANGEL or links provided by me, Nittany Notes (or similar), and instant messenger. Typically during a semester there will be one or two students who test this academic policy. If you are caught using such materials for a quiz you will **receive a zero for ALL quizzes** and for an exam you will **receive an F for the course**. You are strongly advised to consult the Penn State Academic Integrity Policy at:

<http://www.science.psu.edu/academic/Integrity/index.html>

Assignments and Grading - NOTE: With some scores being dropped there will be NO make ups for quizzes or exams. Such instances will be recorded as a zero in the grade book.

Exams: Best 3 of 4 – each exam is comprehensive	60%	See below for dates
Exam 5 – comprehensive and MUST BE TAKEN**	5%	Wed December 9
Quizzes (Best 11 of 13)	35%	1 per lesson

**** Failure to take exam 5 will result in a zero for that exam PLUS a zero to be counted as one of your best 3 of 4 exams!!! ALL exams and quizzes (unless those assigned outside of class) must be taken during the Wednesday lab for which you are scheduled!!**

Course Description:

Statistics is the art and science of using sample data to make generalizations about populations. The topics covered in this course include:

- methods for collecting and summarizing data
- methods for evaluating the accuracy of sample estimates
- techniques for making statistical inferences

Users of statistics -- researchers, government agencies like the Census Bureau and the Bureau of Labor Statistics, companies like the automakers and drug industry, etc. -- make extensive use of the computer in applying statistical methods to their problems. So will you! This course will offer you plenty of practice in analyzing data from a variety of areas. As a result you should be well prepared for problem-solving involving statistics in the rest of your college courses, as well as gaining an understanding of the role of statistics in your daily life.

Required Materials:

- **Textbook:** *Seeing Through Statistics, Third Edition*, by Jessica Utts, published by Duxbury Press. A used text without the CD is acceptable.

Practice Problems – Although no formal homework is assigned, several practice problems will be listed for each chapter with solutions available. You are expected to understand these problems as they will reflect those found on quizzes and exams.

Exams 1 through 5: Of the first four (4) only your best three (3) scores will count. Therefore no make up exams. If you miss one of the first four (4) exams the missed exam will be recorded as a zero and is eligible to count as your lowest exam score and thus be dropped. **As for exam 5 WHICH MUST BE TAKEN: If you miss exam 5 then you will automatically receive a zero (0) as one of your best 3 of 4 exam scores!!** Although a final will be scheduled during the final exam week that final will **NOT** take place. The exams will consist of approximately thirty (30 to 35) multiple choice questions. You may use your text book, lecture notes **from this semester**, and calculator but **cannot** use copies of quizzes or quiz questions (this includes going to a quiz during the exam!) If caught using items beyond this (e.g. going to another website such as Wikipedia, instant messenger, or Nittany Notes) and/or materials other than your book or lecture notes or calculator you will automatically **receive an F for the course. Violators will not be permitted to drop the course (read the academic policy linked above).** These exams will be through ANGEL quiz tool on the following dates. **ALL exams must be taken in the lab for which you are scheduled!!**

Exam 1: Wednesday, September 1

Exam 2: Wednesday, October 7

Exam 3: Wednesday, November 4

Exam 4: Wednesday, December 2

Exam 5: Wednesday, December 9

Quizzes (35% of final grade) – Your best 11 scores for 13 quizzes.

- All but four quizzes are scheduled for Wednesday labs must be taken from the computer labs during your scheduled meeting. Any quizzes taken outside the lab or beyond your scheduled lab meeting time will not be recorded in the grade book.
- The quizzes will pertain to content covered during the previous Monday and Friday lectures.
- If you miss a quiz, you will have the opportunity to take it but a grade will not be recorded.
- Four of the thirteen quizzes will be scheduled for outside of class (see assignment schedule in our ANGEL course)

Grading Scale: The final letter grading will follow the standard University guidelines and are as follows (All grades will be available in the ANGEL grade book under Report tab):

F	D	C	C+	B-	B	B+	A-	A
0	60	70	77	80	83	87	90	93