

CORE-UA 0105-001 - Elementary Statistics

Fall 2018 Syllabus

(Version: September 01, 2018)

Lecture	T Th 8:00-9:15am	Instructor	Dr. Shizhu (Kathy) Liu
Classroom	19UP 102	Email	shizhu.liu@courant.nyu.edu
Text	<i>Understanding Basic Statistics (8th)</i>	Office	WWH 720
Author	Brase and Brase	Office Hours	MW 11am-12pm
Software	WebAssign, Basic Calculator, Excel/Google Sheets	Or By Appointments	T Th [appointment link]

Recitation

Students must also register for one of the following recitation sections associated with this lecture:

Section	Class Time	Classroom	Teaching Assistant	Office Hours
002	F 9:30-10:45am	7E12 129	Jingrou Wei	WWH 805
003	F 11am-12:15pm	7E12 LL33	jw5238@nyu.edu	M 3:30-5:30pm
004	F 8-9:15am	25W4 C-8	Yu Wang	WWH 524
005	F 9:30-10:45am	7E12 123	yw3060@nyu.edu	W 2:00-4:00pm

Course Objectives

Statistical thinking will one day be as necessary a qualification for efficient citizenship as the ability to read and write. –H.G. Wells
Statistics and probability can help us make better choices in our daily lives. Topics in this course include organizing data, averages and variation, correlation and regression, probability theory, probability distributions, estimation and hypothesis testing. The methods introduced in this course will serve as a platform for non-math, non-science-oriented majors to analyze data.

Coursework

Lecture

Lecture slides will be posted to [NYU Classes](#). But frequently tested models, common mistakes, sample solutions and past exam questions will be added during the discussion of each slide. So attending lectures and recitations are important and mandatory. If you miss it, obtain lecture notes from another student.

Participation

Questions and discussion during class are encouraged. Paper attendance sheet will be distributed in selected class meetings, randomly. Feel free to raise questions to instructor and TA via email or by [ask your teacher] function in WebAssign. Discussion in Piazza online forum [see NYU classes external link panel] is highly encouraged.

Homework

Assignments for the course will be of three kinds, all due on **Fridays by 11:55pm**. But this doesn't mean you start to do everything on Fridays, please plan your time well. No late submission, no excuse, but **three** lowest scores of each category will be dropped.

- WebAssign
Online assignments for each section are computational in nature and assess the techniques introduced in class. Multiple choice questions. You will have up to five submissions for each problem and receive immediate feedback on their inputs.
- Written Worksheets (submitted on NYU classes)
Free response questions that are closely related to the computational questions in exams. Please only use basic calculator and paper distribution tables to finish written HW (just like all the resources you can use in a real exam), write your answers down clearly and neatly on the clean paper (not on napkins, please!), scan and upload to NYU classes - assignment section. You can use free scanner app like [Office Lens] or any physical scanning

machines, like the ones in NYU library. Failure to demonstrate all work and steps in the solution of a problem may result in zero credit for the problem.

- Statistical Journal Entries (submitted on NYU classes)
You will be asked to write reflection papers or short essays on various statistical media (exhibitions, articles, movies, data sets etc.). Sometimes you need to present excel/google sheets data processing results or codes to complete your answers and stories.

Students are encouraged to form study groups and work together on homework outside of class time. **It is advised that students begin assignments soon after topics are covered in lecture.** Due dates are chosen to help students review the material discussed during the week in a timely manner. In fairness to graders and other students in the course, **late homework will not be accepted (no exceptions).**

Quizzes and Exams

Basic calculators (non-programmable, non graphic scientific, non internet accessible) are permitted on quizzes or exams.

Quizzes will be given almost every week in recitation. Quiz problems may be similar to class examples or homework problems. There are no makeup quizzes. You will receive a "0" for any missed quizzes. But **three** lowest scores of quizzes will be dropped from the calculation of your course grade.

There will be three exams, two midterms and one comprehensive final. An excused absence for an exam requires notification to the instructor **BEFORE** the exam starts, followed by valid documentation. Otherwise, you will receive a "0" for any missed exams.

- Exam1: Tuesday Oct. 16, 8am - 9:15am, Room: classroom 19UP 102
- Exam2: Tuesday Nov. 20, 8am - 9:15am, Room: classroom 19UP 102
- Comprehensive Final: Thursday Dec. 20, 8am-9:50am, Room: TBA

Course Communication

Any updates/announcements for this course will be communicated in class, by email, by WebAssign messages and/or posted to [NYU Classes](#) as well the syllabus, course calendar, lecture slides, announcement, piazza forum. Failure to regularly check the course NYU classes and your NYU email is not an excuse.

Important Dates:

- Monday, September 17, 2018: Last day to drop/add on Albert for all students
- Tuesday, October 9, 2018: Legislative Day - Classes will meet according to a Monday schedule
- Monday, November 5, 2018: Last day to withdrawal from a course
- Wednesday, November 21 - Friday, November 23, 2018: Thanksgiving, No class

School Calendar: [Fall 2018 Link](#)

Grading policy

Your course grade will be weighted and calculated from the higher one of the following:

Formula 1

5% Participation 5% WebAssign 10% Written HW 10% Journals 10% Quizzes 30% Midterm Average 30% Final

Formula 2

5% Participation 5% WebAssign 10% Written HW 10% Journals 10% Quizzes 25% Higher Midterm 35% Final

A	A-	B+	B	B-	C+	C	C-	D	F
[100,93]	(93,90]	(90,87]	(87,83]	(83,80]	(80,77]	(77,73]	(73,70]	(70,60]	< 60

Other Course Policies

I expect students to contribute to our positive learning environment: **arrive on time** to class, **pay attention** for the duration of the class and **participate** meaningfully during class. Please DO NOT eat or drink, talk or text on your cell phone in class. Students who disrupt our learning environment may be asked to leave.

I receive many emails and your email is important to me. **Include course and section number you are enrolled in the subject of all email correspondence so that I may better assist you.** I will reply to most emails within 24 hours. If not, please send me a reminder.

This course will abide by NYU CAS academic policies and honor code. No cell phones, iPads or other devices that can communicate with the internet or with others may be used during quizzes and exams. Any such equipment found with the power on may well be interpreted as “cheating”.

Resources

- **Communicate with me and TA frequently to address any course related concerns as they arise.** I will forward your email to TA if you are requesting information that was already addressed in class.
- Peer tutoring is available at **University Learning Center** and **Undergraduate Mathematics Tutoring Center** at no charge to students.
- Students with disabilities must consult the **Center for Students with Disabilities** for accommodations as soon as practicable.

Never Wait Until the Last Minute!