

MATH 110: Elementary Statistics I
Summer 2020 Syllabus
June 22 – July 17

Place/Time: MTWRF	Instructor: Wanchunzi Yu
Office: TBA	Office Hours: TBA
Phone: TBA	E-mail: wyu@bridgew.edu

BSU Course Description

This course provides an introduction to measures of central tendency and variability; elementary probability; binomial, normal and t distributions; hypothesis testing and confidence intervals.

Text

The Basic Practice of Statistics (with **Sapling Learning**), 8th Edition, by David Moore, William Notz, and Michael Fligner.

Topic Calendar

No.	Sections Covered (Tentative)	Day
1	Chapter 1. Picturing Distributions with Graphs	1.5
2	Chapter 2. Describing Distributions with Numbers	1.5
3	Chapter 4. Scatterplots and Correlation	1
4	Chapter 5. Regression	1
5	Chapter 3. The Normal Distribution	3
6	Chapter 8. Sampling	0.5
7	Chapter 9. Design of Experiment & Midterm Exam 1 Review	0.5
8	Chapter 12. Introducing Probability	1
9	Chapter 15. Sampling Distributions	1.5
10	Chapter 16. Confidence Intervals: The Basics	1
11	Chapter 17. Test of Significance: The Basics	2
12	Chapter 20. Inference about a Population Mean	1.5
13	Chapter 21 Comparing Two Means & Final Exam Review	2

Course Outcomes

Upon successful completion of this course, students will be conversant with

- basic statistical terminology
- various graphical representations of data
- common measures of centrality and spread
- the use of standard normal tables
- properties of the correlation coefficient
- simple linear regression
- fundamentals of data production via sampling and experimentation
- sampling distributions, large number laws, and the central limit theorem
- confidence intervals and hypothesis tests for population means

Homework

Homework problems are online, we will use the online resource Sapling Learning for chapter homework assignments and supplemental materials. Make sure to select the correct course, please refer to Sapling Learning Instruction on the blackboard for more details. **NO LATE HOMEWORK WILL BE ACCEPTED.**

Blackboard

Grades and additional course content will be uploaded to [Blackboard](#). Make sure to check it regularly for updates.

Attendance

Attendance will be given in class. Often you will be able to work in groups, but each individual student must submit his or her own work. **There will not be any make-up attendance available.**

Exam

You will take 1 mid-term exam and 1 final exam during the semester. Exams are given in class, time will be limited to class time. Each will involve a mix of mechanical skills and conceptual reasoning. The best possible preparation for them is regular attendance and completion of assigned homework & quizzes. You may have 1 page 8x11 of hand written notes (2 sides) on each exam, including a final exam, specific problems solved may be included. Make-up exams are only given in case of documented emergencies. The final exam will take place on Friday, July 17, 2020.

Grading

Your final course grade will be determined by

Homework: 30%

Quizzes (Attendance): 15%

Midterms: 20%

Final Exam: 25%

Grading Scale:

Letter grades will be assigned as follows:

A	93-100	C	73-76
A-	90-92	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62
C+	77-79	F	below 60

Academic conduct

BSU's [academic integrity policy](#).

Students with Disabilities

The Disability Resources office is located on the ground floor of Maxwell Library. If you have a diagnosed disability which will make it difficult for you to carry out the course work, please contact me during the first two weeks of class to discuss reasonable accommodations.

* This syllabus may be amended during the semester.