

Elementary Statistics Syllabus

Math 114-B

Fall, 1997

Course Description:

Students needing a general overview of modern statistics study topics such as organization of data, probability, measures of central tendency and variability, binomial and normal distributions, sampling, tests of hypothesis, estimation, correlation, regression and chi-square. A graphing calculator is required. Prerequisite: MTH 110 or 111 or placement exemption. No credit for both ECO 202 and MTH 114. Offered fall, winter, and spring.

Class Time: MWF 10:00–11:10 AM

Instructor: Jeff Clark

Office: Whitley 307-A

Phone: x2133

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Office Hours: MF 1:30–2:25 PM TTh 9:50–11:30 AM

Required Materials: *Workshop Statistics* by Kenneth Rossman.
TI-83 calculator from Texas Instruments.

Course Objectives:

This is a collaborative learning, activity-based class in statistics, and as such there are three main objectives:

1. To gain an understanding of what the theory of statistics is, how it is used, where it is used, and how it is used in the interpretation of data.

2. To develop the skills of learning both independently and collaboratively in small groups.
3. To be able to interpret statistical results in writing.

Course Content:

1. Distribution of data.
2. Relationships between data.
3. The nature of randomly sampled data.
4. Inference from data, including confidence intervals and significance tests.

Feedback and Evaluation:

1. There will be three exams, each worth 15% of your final grade.
2. There will be a cumulative exam, worth 25% of your final grade.
3. The remaining 30% of your final grade will come from your written work, both in-class writing and homework.

4. I grade on a ten-point scale:

93–100	A
90–92	A-
87–89	B+
83–86	B
80–82	B-
77–79	C+
73–76	C
70–72	C-
67–69	D+
63–66	D
60–62	D-
0–59	F

Schedule

Date	Reading	Exams
Week of August 27	Section 1	
Week of September 1	Sections 2–4	
Week of September 8	Sections 4–6	
Week of September 15	Sections 6–7	Exam #1 on 9/17
Week of September 22	Sections 7–9	
Week of September 29	Sections 9–11	
Week of October 6	Sections 11–12	Exam #2 on 10/6
October 13	Break	
Week of October 15	Sections 13–14	
Week of October 20	Sections 14–15	
October 24	No class	
Week of October 27	Sections 16–18	
Week of November 3	Sections 18–19	Exam #3 on 11/5
Week of November 10	Sections 20–21	
Week of November 17	Sections 22–24	
November 24	Section 24	
November 26, 28	Break	
Week of December 1	Section 25	Exam #4 on 12/3
December 11	3:00–6:00 PM	Final Exam