

MATH 119 – ELEMENTARY STATISTICS

Instructor: Patrick Staley

Office: 390D

Office hours before Oct 2: 9:00-9:50AM on Mon Wed Fri; and 12:30-1:20PM on Tue Thur

Office hours after Oct 2: 9:00-9:50AM on Mon Wed Fri; and 3:30-4:20PM on Tue Thur

Website: www.staley-classes.org

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Telephone: 421-6700, ext 5521

Text: [Basic Practice of Statistics Fourth Edition](#), by [David Moore](#).

Prerequisites: Math 65 with grade of C or better.

Class Hours: section 05: 1:30-3:20PM Mon Wed in room 332

section 06: 1:30-3:20PM Tue Thur in room 397

Graphing Calculator: Recommended calculator is the TI-83+ or the TI-84. Students will also use Excel.

Course Description: This is an introductory class of practical statistics. Specific topics include--

- Picturing data with graphs
- Describing Distributions with numbers
- Normal distributions
- Correlation
- First order least squares curve fitting—linear regression
- Simpson's paradox
- Sampling
- Experiment design
- Elementary probability
- Samples and Populations
- Binomial distributions
- Confidence intervals
- Tests of significance
- Inference errors
- Inferring a population mean
- Inferring a population proportion

Attendance Policy: Students are expected to attend all lectures. If a student misses excessive class time, he/she may be dropped. Attendance is taken with a seating chart.

Electronic Devices: During lecture please turn off all phones, pagers, music devices, tape recorders, etc.

Special Accommodations: Southwestern College recommends that students with disabilities discuss academic accommodations with their professors during the first two weeks of class. An alternate form of this syllabus is available upon request.

Homework: There will be homework due nearly every class period. Repeated failure to complete homework assignments will result in the student being dropped for non-performance.

Grading Policy: Your final grade will be a composite of several chapter tests, a group project, and a Final Exam. The Final Exam and the group project are each weighted as one and one-half chapter tests. Letter grades of A,B,C,D, or F are assigned to each chapter test and Final Exam. These

are incorporated into the final grade based on the weight assignments A=4, B=3, C=2, D=1, and F=0. The final exam is comprehensive. There will be no make up tests.

Example of Grading Algorithm: Assume chapter test grades of B,D,B,B,A, a group project grade of B, and final exam grade of A. Then class grade = $(3+1+3+3+4+3*1.5+4*1.5)/8 = 3.0625 = B$ (note that for the class grade A is 3.501 to 4.0, B is 2.501 to 3.5, C is 1.501 to 2.5, D is 0.9 to 1.5, and F is 0 to .89)

Exams: Knowing the correct answer to an exam question is insufficient—the correct answer must be written on the answer sheet. Exam answers that confuse the grader will be marked wrong.

Website: www.staley-classes.org contains relevant information for this class including: homework assignments, current notes to students, information on exams, an updated syllabus, the current grade sheet (password protected), a description of the case study parameters, exam practice problems, practice tests, answers to practice tests, and other relevant information. You will need Adobe Reader (5.0 or higher; instructions for downloading Adobe Reader are on the website). So that you receive website update notifications please send an email message to stserv@list.mr-ideahamster.com with "subscribe M119F07" in the body. If you are viewing this syllabus in electronic form you may click [here](#) to send the appropriate email message for the notification list.

Exclusion Policy: A student may be dropped from the class for excessive absences, cheating, or disruptive behavior.

Cheating: Behavior indicative of cheating will be handled by an oral exam, the outcome of which will be one of: F grade on the exam, F grade for the semester, dropping the class, or reinstatement of the score. This penalty also applies to any accomplice.

Projected Schedule:

week 1 --Chapters 1&2	week 10 --Chapter 13
week 2 --Chapter 3	week 11 --Chapter 14
week 3 --Chapter 4	week 12 --Chapter 15
week 4 --Chapter 5	week 13 --Chapter 16
week 5 --Chapter 8	week 14 --Chapter 18
week 6 --Chapter 9	week 15 --Chapter 20
week 7 --Chapter 10	week 16 --Group Project Presentations
week 8 --Chapter 11	week 17 -- Group Project Presentations
week 9 --Chapter 12	week 18 --Final Exam

Final Exam times: section 05 Wednesday December 19 1:00PM-3:00PM
section 06 Tuesday December 13 1:00PM-3:00PM

Initial Assignment: Buy the textbook, visit the website, and read chapter 1.