

MATH 119 – ELEMENTARY STATISTICS

Instructor: Patrick Staley

Office: 390D

Office hours: 11:00-11:50am Mon&Wed; 3:30-4:20pm Tue&Thur; 10:30-11:20am Fri

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

Prerequisites: Math 65 with grade of C or better.

Class Hours: section 12: 12:00-1:50PM Mon Wed in room 394

section 14: 1:30-3:20PM Tue Thur in room 397 (&426D)

Graphing and Calculations: Students will use the Excel spreadsheet program. Excel is available on all the computers at Southwestern College. Exams will require a scientific calculator. Lectures will include demonstrations from the statistical package SPSS. Students may also use their own copy of SPSS on their own laptop. Use of SPSS is not required.

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
- 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 be identified as non-performance. The homework problems are posted on the class website.

Grading Policy: Your final grade will be a composite of five exams, a group project, and a Final Exam. The first three exams have both an in-class part (IC) and a do-at-home part (DAH). The fourth exam is an extensive in-class exam. The final exam is comprehensive. The Final Exam and the group project are each weighted as one and one-half exams. Letter grades of A,B,C,D, or F are assigned to each exam, project, and the Final Exam. These are then incorporated into the final grade based on the weight assignments A=4, B=3, C=2, D=1, and F=0. There will be no make up tests. You should be able to access your current aggregate grade through the class website.

Example of Grading Algorithm: Assume chapter test grades of B,D,B,B, B a group project grade of B, and final exam grade of A. Then class grade = $(3+1+3+3+3+3*1.5+4*1.5)/8 = 2.94 = B$ (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), project descriptions, 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 M119S08" 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. A student may be excluded from the class for cheating or disruptive behavior. This class adheres to all misconduct policies as stated in the Southwestern College catalog.

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, student drops the class, or reinstatement of the score. This penalty also applies to any accomplice.

Tutorial Services: The MESA Center, located in room 396, provides free tutoring for this course. The Academic Success Center in room 420, may also offer tutoring.

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 Projects
week 8 --Chapter 11	week 17 -- Group Project Presentations
week 9 --Chapter 12	week 18 --Final Exam

Final Exam times: section 12 Monday May 19 1:00PM-3:00PM
section 14 Thursday May 22 1:00PM-3:00PM

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