Math 282, Section 001, Fall 2024. MWF: 9:00-9:50, EGRA 322

**Prereq:** C or higher in Math 108 (or equivalent or precalculus or calculus). Math 101 **does not** meet the prerequisite.

*Instructor:* David Olive

Text: *The Basic Practice of Statistics*, 6th ed., by by David S. Moore, William I. Notz, Michael A. Fligner ISBN 978-1-4292-9567-3. You may use earlier or later versions of the text, as well as the text used by other Math 282 sections.

**Calculator:** TI-30 (TI-30X, etc. are fine but need TI-30 in the name)

**Course Webpage:** http://parker.ad.siu.edu/Olive/M282.html

*Office:* Neckers 261 (wing A), *Phone:* (618)-453-6566 does not work well

*email:* dolive@siu.edu

**Final Preparation:** https://math.siu.edu/courses/test-preparation.php

*Office hours: MWThF 11:45-1:15*

I am also available by appointment and on a walkin basis.

This course shows how to summarize data with pictures and numbers. Probability, confidence intervals, tests of hypotheses, and regression will also be covered. The computer software Minitab or R will be used. YOU NEED TO KNOW HOW TO READ MINITAB or R OUTPUT FOR EXAMS.

(Cumulative) Common Final: likely (Monday or) Tuesday, Dec. 10 time TBA

The grading below is tentative. **October 27** is the last day to drop the course, but paperwork may be due Friday, Oct. 25.

Students receive a WF if they stop attending class and fail. A WF can result in loss of scholarship money. An INC is given if for reasons beyond their control, students engaged in *passing* work are unable to complete all class assignments.

If necessary, the HW points will be divided into 50 HW points and 50 attendance participation points (on an individual basis, not classwide).

I often give (to the top k students in points out of 1000) the same number k of As and Bs as students get on the final. I usually give a C or higher to a student who gets a B or higher on the final even if that student does not have 700 or more points.

*Grading:*

| HW | 100 | drop one HW | Quizzes | 150 | drop one Quiz |
|---|---|---|---|---|---|
| exam1 | 150 | exam 2 | 150 | exam 3 | 150 |
| final | 300 | | | total | 1000 |
| min. grade | points | min. grade | points | min. grade | points |
| A | 900-1000 | B | 800-899 | C | 700-799 |
| D | 550-699 | | | | |

| Week of | MON | WED | FRI |
|---------|-----|-----|-----|
| Aug 19 | ch. 1 | 1,2 | 2 |
| Aug 26 | 3 | 3 | 4, HW1, Q1 |
| Sept 2 | no class | 4 | 5, HW2, Q2 |
| Sept 9 | 5 | 8, Q3 | 8, HW3 |
| Sept 16 | 10,rev | EX1 (ch1-5,8?) | 10, HW4 |
| Sept 23 | 11 | 11, Q4 | 12, HW5 |
| Sept 30 | 13 | 13, Q5 | 14, HW6 |
| Oct 7 | 14 | 15, Q6, | 15, HW7 |
| Oct 14 | 15, rev | Ex2 (ch3,5,8,10,11,12,13,14?) | no class? |
| Oct 21 | 17, HW8 | 17, Q7 | 18, HW9 |
| Oct 28 | 18 | 19, Q8 | 19, 20, HW10 |
| Nov 4 | 20 | 22, Q9 | 22, HW11 |
| Nov 11 | no class | 22, 23, Q10 | 23, HW12 |
| Nov 18 | 23,rev | EX3 (ch13-20,22, 23?) | 23,9 |
| Nov 25 | no class | no class | no class |
| Dec 2 | 9, HW13 | 9, Q11 | rev |

Earlier editions, *Essential Statistics* by Moore and *Introduction to the Practice of Statistics* by Moore and McCabe are ok. Homework does not need 6th edition, but notes will refer to page numbers from the 6th edition. The URL www.addall.com has lots of old editions for sale, cheap.

Do not buy any supplements.

Your TI-30 calculator should do square roots, $y^x$ or $x^y$, factorial $x!$ or $y!$.

At least one sheet of notes is allowed for each quiz.

ABE 318 and EPSY 402 are similar to Math 282.

HED 489, PLB 360 = ZOOL 360, PSYCH 211 and SOC 308 are introductory statistics classes.

ACCT 208, ECON 308 and POLS 300 may also work.

If you have had calculus, Math 483 is likely a better course.