MAT 132 Stats & Probability w/Support (Discussion), Section 07, CN 43944, (Laboratory), Section 08, CN 43945 Fall 2024

Class meets MWF 11:30 AM - 12:45 PM (Discussion), F: 12:45 PM – 2:15 PM (Laboratory) in SBS B137.

Instructor: Serban Raianu, office: NSM E-108, office phone: (310) 243-3139, cell phone: (657) 204-5612; e-mail address: sraianu@csudh.edu, URL: http://math.csudh.edu/~sraianu; office hours: Monday, Wednesday, Friday: 2:30 PM - 3:50 PM, or by appointment.

Course Description: A practical course in probability and statistics including such topics as normal distributions, confidence intervals, t tests, linear regression and correlation.

Text: *The Basic Practice of Statistics*, by David S. Moore. W.H. Freeman and Company, Sixth Edition.

Objectives: After completing MAT 131 the student will be able to

- demonstrate understanding of the relationship between a question that is asked in the natural, economic, and social sciences and the nature of the numerical data that are needed in order to provide an answer to the question,
- carry out the required algebraic manipulations, with appropriate use of a calculator, to analyze and understand the implications contained in a set of numerical data,
- draw a valid inference from a collection of numerical data.

Prerequisites: MAT 102 or GE Math Ready with Support (Level III).

Grades: Grades will be based on **three full period written examinations** (60% total), a comprehensive **final examination** (25%), and **quizzes**, **homework** and (possibly) other assignments (15%) for the remainder.
The exact grading system for your section is the following:

No makeup examinations will be given. The exams are taken in class and graded on Gradescope. If you must miss an examination for a legitimate reason, discuss this, in advance, with me, and I may then substitute the relevant score from your final examination for the missing grade. Each of the **three exams** will be graded on a 0-20 scale, then the sum of the scores is denoted by E.

Homework will be due at the end of the day on September 3, 10, 17, 24, October 6, 13, 20, 27, November 7, 17, 24, and December 3, and each homework is worth 10 points. For each assignment one of the problems will be selected and graded on a scale from 0 to 4. The remaining 6 points will be awarded for completeness of the homework assignment. The average of all homework scores is denoted by H. Homework will be submitted as a pdf with your paper work on Gradescope. There is no need to match the pages with the problems when submitting the homework, see

https://www.youtube.com/watch?v=u-pK4GzpId0

Gradescope can be accessed from the link your Canvas course, and you can practice submitting your work on Gradescope using the assignment called Submission practice, which will remain open throughout the semester. No late homework will be accepted.

15 minutes quizzes will be given on September 4, 11, 18, 25, October 7, 14, 21, 28, November 8, 18, 25, and December 4, and will be graded on a scale from 1 to 5. The average of the quiz scores is denoted by Q. Each quiz

will consist of one problem, similar but not necessarily identical to one of the homework problems assigned for that week. The quiz will be taken in class and graded on Gradescope. No makeup quizzes will be offered.

The **final exam, will contain problems similar to problems assigned as homework throughout the semester,** will be graded out of a maximum possible 25 points. The score on the final is denoted by F. The final exam will be taken in class and graded on Gradescope.

To determine your **final grade**, compute $E+H+Q+F$. The maximum is 100, and the grade will be given by the rule:

A: 93-100; A-: 90-92; B+: 87-89; B: 83-86; B-: 80-82
C+: 77-79; C: 73-76; C-: 70-72; D+: 67-69; D: 60-66; F: Less than 60.

You will be able to follow your progress in the class in Canvas under Grades throughout the semester.

Extra Credit: I will take book attendance at least 15 times during the semester, each time you bring your book to class and your attendance is recorded you get 0.2 points added to your final score, up to a maximum of 3 points. The SI will take attendance during labs on Fridays, and each time your attendance is recorded you receive an extra credit of 0.2 points, for a maximum total of 3 points. Other extra credit opportunities will be announced in class.

Accommodations for Students with Disabilities: California State University, Dominguez Hills adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with temporary and permanent disabilities. If you have a disability that may adversely affect your work in this class, I encourage you to register with Student disAbility Resource Center (SdRC) and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. Please note: no accommodation may be made until you register with the SdRC in WH D-180. For information call (310) 243-3660 or to use telecommunications Device for the Deaf, call (310) 243-2028.

Academic Integrity: The mathematics department does not tolerate cheating. Students who have questions or concerns about academic integrity should ask their professors or the counselors in the Student Development Office, or refer to the University Catalog for more information. (Look in the index under "academic integrity".)

Tentative schedule and homework assignments

M 8/26:	Chapter 1: Apply your knowledge 1.1-1.11 odd
W 8/28:	Chapter 1: Check your skills 1.13-1.22 all
F 8/30:	Chapter 1: Exercises 1.24, 1.25, 1.28, 1.29, 1.32, 1.38
M 9/2:	**Labor day**
W 9/4:	Chapter 2: Apply your knowledge 2.1-2.5 odd
F 9/6:	Chapter 2: Check your skills 2.15-2.24 all
M 9/9:	Chapter 2: Exercises 2.25, 2.30, 2.36, 2.42
W 9/11:	Chapter 3: Apply your knowledge 3.1-3.13 odd
F 9/13:	Chapter 3: Check your skills 3.15-3.24 all
M 9/16:	Chapter 3: Exercises 3.28, 3.29, 3.30, 3.39
W 9/18:	Chapter 4: Apply your knowledge 4.1-4.13 odd
F 9/20:	Chapter 4: Check your skills 4.14-4.23 all
M 9/23:	Chapter 4: Exercises 4.26, 4.33, 4.35, 4.36, 4.39
W 9/25:	**Review**
F 9/27:	**Exam 1**
M 9/30:	Chapter 5: Apply your knowledge 5.1-5.15 odd
W 10/2:	Chapter 5: Check your skills 5.18-5.27 all
F 10/4:	Chapter 5: Exercises 5.28, 5.29, 5.33, 5.35, 5.41
M 10/7:	Chapter 8: Apply your knowledge 8.1-8.13 odd
W 10/9:	Chapter 8: Check your skills 8.17-8.25 all
F 10/11:	Chapter 8: Exercises 8.27, 8.28, 8.29, 8.30, 8.31
M 10/14:	Chapter 9: Apply your knowledge 9.1-9.13 odd
W 10/16:	Chapter 9: Check your skills 9.19-9.27 all
F 10/18:	Chapter 9: Exercises 9.28, 9.31, 9.38, 9.45
M 10/21:	Chapter 10: Apply your knowledge 10.1-10.17 odd
W 10/23:	Chapter 10: Check your skills 10.19-10.30 all
F 10/25:	Chapter 10: Exercises 10.31, 10.32, 10.33, 10,35, 10.37
M 10/28:	**Review**
W 10/30:	**Exam 2**
F 11/1:	Chapter 11: Apply your knowledge 11.1-11.13 odd
M 11/4:	Chapter 11: Check your skills 11.14-11.21 all
W 11/6:	Chapter 11: Exercises 11.22, 11.23, 11.24, 11.27, 11.29
F 11/8:	Chapter 14: Apply your knowledge 14.1-14.9 odd
M 11/11:	**Veterans Day**
W 11/13:	Chapter 14: Check your skills 14.11-14.18 all
F 11/15:	Chapter 14: Exercises 14.19, 14.21, 14.22, 14.24, 14.25
M 11/18:	Chapter 15: Apply your knowledge 15.1-15.17 odd
W 11/20:	Chapter 15: Check your skills 15.19-15.27 all
F 11/22:	Chapter 15: Exercises 15.28, 15.29, 15.30, 15.31
M 11/25:	Chapter 18: Apply your knowledge 18.1-18.13 odd
W 11/27:	Chapter 18: Check your skills 18.15-18.24 all
F 11/29:	**Thanksgiving Break**
M 12/2:	Chapter 18: Exercises 18.25-18.31 odd
W 12/4:	**Review**
F 12/6:	**Exam 3**
M 12/9:	**Final review**

Final examination: Wednesday, December 11, 11:30 AM - 1:30 PM.

Important Dates:

August 26 Monday Classes Begin
August 26-September 13, Monday-Friday Late Registration and Add/Drop via MyCSUDH – fees due 48 hours after registration
September 2, Monday, Labor Day Holiday – NO CLASSES, CAMPUS CLOSED
September 6, Friday, Instructor Drop Deadline
September 4-19, Wednesday-Thursday, Late Registration and Add/Drop via MyCSUDH – fees due at time of registration
September 15, Sunday, Fall 2024 Graduation Application Deadline – with late fee
September 19, Thursday, Credit/No Credit and Audit Grading Deadline
September 20, Friday, Last Day to Drop from FT to PT Status with Refund
September 20, Friday, Drop Without Record of Enrollment Deadline via Change of Program Form
September 20, Friday Student Census
September 23-November 15, Monday-Friday, Serious and Compelling Reason Required to Withdraw
October 1 Tuesday Spring 2025 Graduation Application Deadline – without late fee
October 14-January 20, Monday-Monday, Spring 2025 Registration via MyCSUDH
October 17, Thursday, The Great California ShakeOut at 10:17 a.m.
October 22-December 19, Tuesday-Thursday, Winter 2025 Registration – fees due at time of registration
October 31, Thursday, Last Day for Pro-rata Refund of Non-Resident Tuition and Tuition fees
November 1, Friday, First day to file for Summer 2025 Graduation
November 11, Monday, Veterans Day Holiday – NO CLASSES, CAMPUS CLOSED
November 18-December 9, Monday-Monday, Serious Accident/Illness Required to Withdraw
November 28, Thursday, Thanksgiving Day Holiday – NO CLASSES, CAMPUS CLOSED
November 29-December 1, Friday-Sunday, Thanksgiving Break, not a Holiday – NO CLASSES, CAMPUS CLOSED
December 9, Monday, Last Day of Scheduled Classes
December 10-16, Tuesday-Monday, Final Examinations
December 10, Tuesday, Grade Submission Begins
December 14, Saturday, Spring 2025 Graduation Application Deadline – with late fee
December 17, Tuesday, Evaluation Day
December 19, 3 p.m. Thursday, Final Grades Due (College of Continuing and Professional Education grades always due 72 hours after course end date)
December 19 Thursday Semester Ends