

CSU-Pueblo Hasan School of Business
Fall 2018 Syllabus for BUSAD 265 Inferential Statistics and Problem Solving
Sec 1. MW 11:15-12:35 in HSB 108; Sec. 2 MW 1:00-2:20 in HSB 110

Instructor: Justin O. Holman, Ph.D.

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Course Pages: www.justinholman.com/teaching

Office Hours: MW 12:35-1:00, 2:20-3:00; TTh 12:35-2:00

Course Description: Statistical methods in business, sampling, parameter estimation, hypothesis testing, correlation, linear regression and other problem solving methods.

Prerequisites: MATH 121 or equivalent

Course Objectives/Instructional Methods: Students will learn to utilize statistical methods including sampling, parameter estimation, hypothesis testing, correlation, linear regression and other problem solving methods.

Credit hours: 3

Expected student effort: 2250 minutes between in-class work and preparation/homework

Student Learning Outcomes (SLOs)

Students will learn to utilize statistical methods including sampling, parameter estimation, hypothesis testing, correlation, linear regression and other problem solving methods.

Required Text(s) and Other Materials:

- Text: Introduction to the Practice of Statistics, 6th ed. by D.S. Moore et al. [optional]
- Software: Google Sheets
- Courseware and video: [DataCamp.com](https://www.datacamp.com), [Against All Odds](#)

Course Requirements:

- Exams: Students must take 3 midterms and a comprehensive final (20% each = 80%).
- Classroom Activities: Students must participate in classroom activities (10%).
- Assignments: Students must complete assigned projects outside of class (10%).

Grading: Each grading component will be assigned a score expressed as a percentage. The weighted average of these percentages will determine your final grade. Standard grading thresholds will apply, i.e., $\geq 90\%$ will earn an A, $\geq 80\%$ a B, $\geq 70\%$ a C, $\geq 60\%$ a D, and $< 60\%$ an F.

Classroom Etiquette: Professional behavior is expected at all times. Disruptive behavior in the classroom will not be tolerated. Anyone causing a disturbance will be asked to leave. Multiple infractions will result in referral to Office of Student Judicial Affairs.

Accommodations: Colorado State University-Pueblo abides by the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, which stipulates that no student shall be denied the benefits of an education "solely by reason of a handicap." If you have a documented disability that may impact your work in this class and for which you may require accommodations, please see the Disability Resource & Support Center as soon as possible to arrange accommodations. In order to receive accommodations, you must be registered with and provide documentation of your disability to the Disability Resource & Support Center, which is located in the Library and Academic Resources Center, Suite 169.

Mandatory Reporting: Colorado State University-Pueblo is committed to maintaining respectful, safe, and nonthreatening educational, working, and living environments. As part of this commitment, and in order to comply with federal law, the University has adopted a Policy on Discrimination, Protected Class Harassment, Sexual Misconduct, Intimate Partner Violence, Stalking, & Retaliation. You can find information regarding this policy, how to report violations of this policy, and resources available to you, on the Office of Institutional Equity's website (www.csupueblo.edu/institutional-equity).

Please familiarize yourself with the reporting requirements of this policy. Because I am a faculty member, I am a "Responsible Employee." That means I have to report to the Director of the Office of Institutional Equity if you tell me that you were subjected to, or engaged in, of any of the following acts: *discrimination, protected class harassment, sexual misconduct, intimate partner violence, stalking, and retaliation*.

Academic Dishonesty:

Academic dishonesty is any form of cheating which results in students giving or receiving unauthorized assistance in an academic exercise or receiving credit for work which is not their own. In cases of academic dishonesty, the instructor will inform the chair of the department prior to implementation of punitive action. Academic dishonesty is grounds for disciplinary action by both the instructor and the Dean of Student Services and Enrollment Management. Any student judged to have engaged in academic dishonesty may receive a failing grade for the work in question, a failing grade for the course, or any other lesser penalty which the instructor finds appropriate. To dispute an accusation of academic dishonesty, the student should first consult with the instructor. If the dispute remains unresolved, the student may then state his or her case to the department chair (or the dean if the department chair is the instructor of the course).

Academic dishonesty is a behavioral issue, not an issue of academic performance. As such, it is considered an act of misconduct and is also subject to the University disciplinary process as defined in the CSU-Pueblo Student Code of Conduct Policies and Procedures Manual. Whether or not punitive action has been implemented by the faculty, a report of the infraction should be submitted to the Dean of Student Services and Enrollment Management who may initiate additional disciplinary action. A student may appeal a grade through the Academic Appeals Board. The Dean of Student Services and Enrollment Management's decision may be appealed through the process outlined in the Student Code of Conduct Policies and Procedures Manual.

Early Performance Survey: This course participates in the Starfish student success program. Early in the semester, information about student performance in this class will be communicated to each student by email and/or text from Starfish. Attention to suggested actions is encouraged. This information is also available to academic advisors and others involved in supporting student success. Your advisor may then ask to meet with you to discuss your plans for success. The program is designed to promote success among students through proactive advising, and through referral to appropriate resources. Efforts to inform and assist students continues throughout the semester with a mid-semester survey, and instructor concerns or kudos can be posted to Starfish at any time.

Important Dates (subject to change):

- Sep 12 - Exam 1
- Oct 17 - Exam 2
- Nov 14 - Exam 3
- Dec 3 at 10:30a - Final Exam for Sec 1
- Dec 3 at 1:00p - Final Exam for Sec 2

Class Schedule:

<u>Week</u>	<u>Topics</u>
1	Introduction, Distributions, Stemplots, Histograms
2	Percentiles, Boxplots and Variance
3	Normal Distribution, Z-Scores, Standard Normal, Normal Curve Problems
4	Exam 1
5	Design of Experiments, Sampling, Surveys, Polling
6	Scatterplots and Linear Regression
7	Probability
8	Randomization and Simulation
9	Exam 2
10	Sampling Distributions, Estimation, Confidence Intervals
11	Tests of Significance
12	Small sample inference, Proportions
13	Exam 3
14	Thanksgiving
15	Review for comprehensive final
16	Finals Week