



Master Course Syllabus

For additional course information, including prerequisites, corequisites, and course fees, please refer to the Catalog: <https://catalog.uvu.edu/>

Semester: Spring

Course Prefix: PSY

Course Title: Statistics for the Behavioral Sciences

Year: 2025

Course and Section #: 3110-001

Credits: 4

Course Description

Statistics is simply a tool or set of techniques that researchers from various fields use to answer questions and derive meaning from data. Students taking this course will become familiar with statistical techniques commonly used in the behavioral sciences with an emphasis on interpretation.

Course Attributes

This course has the following attributes:

- General Education Requirements
- Global/Intercultural Graduation Requirements
- Writing Enriched Graduation Requirements
- Discipline Core Requirements in Program
- Elective Core Requirements in Program
- Open Elective

Other: *Click here to enter text.*

Instructor Information

Instructor Name: Cameron John

Student Learning Outcomes

1. Interpret statistics found in newspapers, magazines, and academic research papers.
 2. Integrate statistical practice into behavioral science research.
 3. Conduct a statistical analysis in academic settings or other settings.
 4. Apply statistical theory to behavioral science research.
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Course Materials and Texts

Heiman, G. (2014). Behavioral Sciences: STAT. ISBN 9780357687512

Course Requirements

Course Assignments, Assessments, and Grading Policy

Homework:

HW1: Each week there will be a homework assignment given that will have excerpts from journal articles with questions that can be answered from the provided results. You will submit these answers to Canvas for an immediate score. You can have two attempts at the homework. (10 pts. each)

HW2: Each week (except 3) there will be a homework assignment requiring you to use the statistical package JASP to analyze a dataset provided to you. You will submit the results to Canvas to be reviewed. (10 points each)

Quizzes: There will be a weekly in-class each week based on the information from the modules. The quizzes will have two parts: 1) take the quiz individually in Canvas (10 pts); 2) form a group and retake the quiz receiving a group score (5 pts) Total points 180 pts.

Exams: There will be two exams given as part of the class. The exams may be multiple-choice exams, fill in the blank and/or work problems. Each exam will be worth 50 points for a total of 100 points.

Final Exam: The final exam you will participate in, is a comprehensive, multiple-choice exam to measure your knowledge of statistical concepts. The exam consists of approximately 50 items. (50 pts.)

Grading Scale

A	100 – 94 %
A-	93 – 90%
B+	89 – 87%
B	86 – 84%
B-	83 – 80%
C+	79 – 77%
C	76 – 74%

C-	73 – 70%
D+	69 – 67%
D	66 – 64%
D-	63 – 60%
E	59% and below

Required or Recommended Reading Assignments

Chapters within textbook.

General Description of the Subject Matter of Each Lecture or Discussion

Subject matter aligns with content of textbook.

Introduction to Statistics and Research

Creating and Using Frequency Distributions

Summarizing Scores with Measures of Central Tendency

Summarizing Scores with Measures of Variability

Describing Data with z-scores and the normal curve

Using probability to make decisions about data

Overview of statistical hypothesis testing

Hypothesis testing using the one-sample t-test

Hypothesis testing using the two-sample t-test

Describing relationships using correlation and regression

ANOVA

Chi square and nonparametric procedures

Required Course Syllabus Statements

Generative AI

AI programs are not a replacement for your human creativity, originality, and critical thinking. Writing, thinking, and researching are crafts that you must develop over time to develop your own individual voice. At the same time, you should learn how to use AI and in what instances AI can be helpful to you.

The use of generative AI tools (e.g. ChatGPT, Google Bard, etc.) is permitted in this course for the following activities:

- Brainstorming and refining your ideas;
- Fine tuning your research questions;

- Finding information on your topic;
- Drafting an outline to organize your thoughts; and
- Checking grammar and style.

The use of generative AI tools is not permitted in this course for the following activities:

- Impersonating you in classroom contexts, such as by using the tool to compose discussion board prompts/responses assigned to you or content that you put into a Teams/Canvas chat.
- Completing group work that your group has assigned to you, unless it is mutually agreed upon that you may utilize the tool.
- Writing a draft of a writing assignment.
- Writing entire sentences, paragraphs or papers to complete class assignments.

You are responsible for the information you submit based on an AI query (for instance, that it does not violate intellectual property laws, or contain misinformation or unethical content). Your use of AI tools must be properly documented and cited in order to stay within university policies on academic honesty.

Any student work submitted using AI tools should clearly indicate what work is the student's work and what part is generated by the AI. In such cases, no more than 25% of the student work should be generated by AI. If any part of this is confusing or uncertain, please reach out to me for a conversation before submitting your work.

Using Remote Testing Software

This course does not use remote testing software.

This course uses remote testing software. Remote test-takers may choose their remote testing locations. Please note, however, that the testing software used for this may conduct a brief scan of remote test-takers' immediate surroundings, may require use of a webcam while taking an exam, may require the microphone be on while taking an exam, or may require other practices to confirm academic honesty. Test-takers therefore shall have no expectation of privacy in their test-taking location during, or immediately preceding, remote testing. If a student strongly objects to using test-taking software, the student should contact the instructor at the beginning of the semester to determine whether alternative testing arrangements are feasible. Alternatives are not guaranteed.

Required University Syllabus Statements

Accommodations/Students with Disabilities

Students needing accommodations due to a permanent or temporary disability, pregnancy or pregnancy-related conditions may contact UVU [Accessibility Services](#) at accessibilityservices@uvu.edu or 801-863-8747.

Accessibility Services is located on the Orem Campus in BA 110.

Deaf/Hard of Hearing students requesting ASL interpreters or transcribers can contact Accessibility Services to set up accommodations. Deaf/Hard of Hearing services can be contacted at DHHservices@uvu.edu

DHH is located on the Orem Campus in BA 112.

Academic Integrity

At Utah Valley University, faculty and students operate in an atmosphere of mutual trust. Maintaining an atmosphere of academic integrity allows for free exchange of ideas and enables all members of the community to achieve their highest potential. Our goal is to foster an intellectual atmosphere that produces scholars of integrity and imaginative thought. In all academic work, the ideas and contributions of others must be appropriately acknowledged and UVU students are expected to produce their own original academic work.

Faculty and students share the responsibility of ensuring the honesty and fairness of the intellectual environment at UVU. Students have a responsibility to promote academic integrity at the university by not participating in or facilitating others' participation in any act of academic dishonesty. As members of the academic community, students must become familiar with their [rights and responsibilities](#). In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, assessments, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Likewise, instructors are responsible to clearly state expectations and model best practices.

Further information on what constitutes academic dishonesty is detailed in [UVU Policy 541: Student Code of Conduct](#).

Equity and Title IX

Utah Valley University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, citizenship, genetic information, or other basis protected by applicable law, including Title IX and 34 C.F.R. Part 106, in employment, treatment, admission, access to educational programs and activities, or other University benefits or services. Inquiries about nondiscrimination at UVU may be directed to the U.S. Department of Education's Office for Civil Rights or UVU's Title IX Coordinator at 801-863-7999 – TitleIX@uvu.edu – 800 W University Pkwy, Orem, 84058, Suite BA 203.

Religious Accommodation

UVU values and acknowledges the array of worldviews, faiths, and religions represented in our student body, and as such provides supportive accommodations for students. Religious belief or conscience broadly includes religious, non-religious, theistic, or non-theistic moral or ethical beliefs as well as participation in religious holidays, observances, or activities. Accommodations may include scheduling or due-date modifications or make-up assignments for missed class work.

To seek a religious accommodation, a student must provide written notice to the instructor and the Director of Accessibility Services at accessibilityservices@uvu.edu. If the accommodation relates to a scheduling conflict, the notice should include the date, time, and brief description of the difficulty posed by the conflict. Such requests should be made as soon as the student is aware of the prospective scheduling conflict.

While religious expression is welcome throughout campus, UVU also has a [specially dedicated space](#) for meditation, prayer, reflection, or other forms of religious expression.