



**PSYC 2510 G-Statistical Principles for Psychology Section Name Section Credit Hours**  
**Credits**  
**Syllabus**

## Course Information

**Meeting times and location:** section meeting\_times section location

**Catalog description:** This course covers introductory-level topics in statistics that are applicable to psychological research. Both descriptive and inferential statistics are covered. Topics include applying statistical formulas to psychological data and interpreting the results of statistical analyses.

**Prerequisites:** PSYC-1110 and MATH-1130 or higher

**Terms offered:** Fall and Spring

**Section-specific Course Description:**

## Course Level Objectives

Upon completion of the course, students should be able to:

1. Identify statistical methods used in the analysis of psychological research.
2. Apply appropriate statistical methods to the analysis of data.
3. Interpret the results of statistical analyses of data.
4. Evaluate the use of statistics in psychological literature.

## General Education Student Learning Outcomes

This course meets the requirements set forth by the state of New Mexico for a general education course that is transferable to any public institution of higher education in New Mexico. Each general education course addresses three essential skills as outlined in the table below.

General Education Content Area	Essential Skills Associated with the Content Area
Communication	Communication, Critical Thinking, Information & Digital Literacy
Creative and Fine Arts	Communication, Critical Thinking, Personal & Social Responsibility
Humanities	Critical Thinking, Information & Digital Literacy, Personal & Social Responsibility
Mathematics	Communication, Critical Thinking, Quantitative Reasoning
Science	Critical Thinking, Personal & Social Responsibility, Quantitative Reasoning
Social & Behavioral Sciences	Communication, Critical Thinking, Personal & Social Responsibility

For further information on the Essential Skills, visit the [General Education Essential Skills](#) page.

## Required Texts and/or Materials



### **Essentials of Statistics for the Behavioral Sciences**

MindTap Digital Platform

multiple format options

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Cengage Learning

2020-01-23

10th

Multiple format options available. Please visit the SJC bookstore (<https://bookstore.sanjuancollege.edu/>) for options and individual instructor preferences.

### **JASP and Excel with Data Analysis Toolpak or Google Sheets with XL Miner ToolPak**

**Refer to specific course syllabus for additional required and recommended readings**

## Required Technology and Software

- Canvas
- Chrome, Safari, or Firefox

## Course Requirements

**Specific learning activities and expectations vary by instructor and course format. Please consult with your individual instructor for further details regarding specific course activities, requirements, and expectations.**

In this class, you will:

1. Engage with course material through regular reading, writing, and activities such as demonstrations
2. Participate in peer-to-peer interactions (e.g., discussions), allowing you to exercise critical reasoning, reflection, and communication skills while engaging with multiple perspectives
3. Check understanding through formal assessments (chapter quizzes or exams)
4. **Complete weekly lab activities where we practice reading, analyzing, interpreting, and reporting data using appropriate statistical analysis tools and methods**
5. Apply course concepts to "real world" contexts (e.g., case studies, journals, research papers/projects, etc.)

Unless otherwise noted, any electronic documents submitted must be compatible with Canvas and PC operating systems (e.g., .doc, .docx, .pdf, etc.). Please do NOT submit iWork files (e.g., .pages or .key files).

## Other Classroom Policies and Expectations

You are rising professionals with valuable contributions to share with this class. This is a space to explore, grown, and challenge ideas and understandings. To facilitate this, please: "show up" and be prepared; evaluate ideas and multiple perspectives (including your own) critically; be respectful toward and considerate of each other (even in moments of disagreement); be responsible scholars (please review and abide by the college academic honesty policy); and actively participate in the learning process.

**Specific policies regarding classroom/online participation, late work, extra credit, etc. vary by instructor and course format. Please consult individual course syllabi for further details.**

## Grading

**Final grades are calculated based on course activities and assessments and vary by instructor. Please consult individual course syllabi for details.**

Letter grades are based on the following percentages:

- 90-100% = A
- 80-89.99% = B
- 70-79.99% = C
- 60-69.99% = D
- < 60% = F

## Course Time Commitment

**Specific weekly course time commitments vary by course duration (e.g., a 6-week, 8-week, or 16-week format). Please consult individual course syllabi for specific expectations.**

However, as a **4-credit** course, in general you should plan:

- 6-week course: ~30 hrs week
- 8-week course: ~22-24 hrs week
- 16-week course: ~12 hrs week

## Canvas Participation and Expectations

*As noted, your consistent participation is critical for your success. Plan to log in to Canvas regularly.*

**Specific Canvas policies and expectations vary by instructor and course format. Please consult individual course syllabi for further details.**

## Participation and Attendance Policy

*Consistent participation is linked to academic success; therefore, it is in your best interest to participate regularly throughout the semester and stay in communication with your instructor.*

**Specific participation and attendance policies vary by instructor and course format. Please consult individual course syllabi for further details.**

# Instructor Response Times & Regular Interaction Expectations

**Specific communication preferences and policies vary by instructor. Please consult individual course syllabi for further details.**

## Key Dates to Remember

[Full Academic Calendar](#)

## Course Schedule

**Course schedules vary by instructor and course duration, and are subject to change at instructor discretion. Please consult individual course syllabi for details.**

You can expect to cover topics such as:

1. Introduction to and overview of statistics
  - Defining "statistics"
  - Parameters vs Statistics
  - Populations vs Samples
  - Descriptive and Inferential Statistics
  - Measurement Scales
2. Frequency distributions
3. Measures of central tendency (mean, median, mode)
4. Measures Variability (range, variance, standard deviation)
5. z-Scores and Standardized Distributions
6. Probability and Samples
7. Hypothesis Testing
8. The  $t$ -statistic (one-sample, two independent samples, two related samples)
9. Analysis of Variance (ANOVA)
10. Correlation
11. Regression

12. The Chi-square statistic (goodness of fit and test of independence) & other nonparametric tests

## Technical Support

Technical support is available through the San Juan College Help Desk 24/7/365. The help desk can be reached at 505-566-3266 or by creating a ticket at [San Juan College Help Desk](#).

For password reset and Canvas support, visit the [Student Technology Guide](#) website.

## Accessibility/Privacy Policies for all Technology Tools Used

[Accessibility/Privacy Policies for all Technology Tools Used](#)

## Student Support

At San Juan College, we are committed to supporting your academic success and overall well-being. We recognize that college life can be challenging and stressful, impacting both learning and personal health. We are here to help you succeed.

### **Academic Support and Resources**

We provide a range of academic support services to help you stay on track on your educational journey. Free resources include tutoring, computer loans, life skills workshops, and so much more. Visit the [Academic Support and Resources](#) webpage to learn more about support and resources available through Academic Advising, the Tutoring Center, the Student Resource Center (formerly Student Achievement Center) and the Testing Center.

### **Student Support and Resources**

If you or someone you know could benefit from counseling, accessibility services, career exploration, veteran transitional assistance, or any of our other support services, visit the [Student Support and Resources](#) webpage where you'll find detailed information about various resources available to you as an SJC student.

We encourage you to take advantage of these free resources to enhance your college experience and ensure your success.

## College Policies and Resources for Current Students

The [Student Handbook](#) provides information on student support, student organizations, and student conduct policies at San Juan College.

The San Juan College catalog outlines the [Academic Policies](#) students need to know.

## Healthy and Safe Practices for Being on Campus

We want a healthy and safe campus for students, faculty, staff, and guests.

### **Contagious diseases and your responsibility:**

If you have COVID-19 symptoms, fever, flu or even the common cold, you should stay home. Do not come to campus if you are feeling sick. Contact your instructor about missing class (and review your instructor's policies on missed or late work). Being sick does not necessarily excuse you from completing your work on time.

### **Safety on campus and your responsibility:**

If you are on campus and experience or witness an emergency, call 9-1-1 first and then the Department of Public Safety at 505-566-3333 (or just 3333 if calling from a campus phone).

When you are on campus, be aware of your surroundings. If you need an escort to your vehicle, call 505-566-4444 (DPS non-emergency line) or 505-215-3091 (officer on duty line).

The College will send information for campus emergencies through SJC AlertAware, email and the webpage. Stay informed and stay safe.

## Inclement Weather Information

Students will receive notification of class delays and cancellations due to inclement weather via the SJC AlertAware and SJC student email. Face-to-face classes will not meet in person; however, students are advised to check with instructors about alternative meeting options, as some may choose to meet via zoom. Hybrid classes will meet as scheduled via zoom. For questions regarding your class delay or cancellation, please contact your instructor.

## Online Course Fee

Online Courses - San Juan College requires all online courses to include some form of assessment to demonstrate the mastery of course objectives. This could include exams, capstone projects, e-

portfolios, presentations, final papers or other appropriate assessments. The use of a proctoring platform, plagiarism detection software or other method to ensure that assessments are completed by the enrolled student is required.

A course fee of \$5.00 is assessed for all online courses at San Juan College to cover the cost of the above services. Students who are required to take a proctored exam and choose to use a physical testing center outside the SJC Testing Center or SJC Disability Services will be responsible for the cost of using that center.