

SAN JOSE STATE UNIVERSITY -- SPRING SEMESTER 2024
PSYCHOLOGY 118 (SECTION 30) – ADVANCED RESEARCH METHODS

Instructor

Martin Lampert, Ph.D.

Instructor's Office Hours

Tuesdays, 10:45–11:45 a.m. (in-office)

Thursdays, 10:45–11:45 a.m. (online)

Instructor's Contact Information

Office: DMH 352, Desk 3

E-mail: martin.lampert@sjsu.edu

Office Zoom: <https://sjsu.zoom.us/j/8098683562>

Hybrid Class Meetings

In-Person: DMH 353, Tuesdays, 1:30-3:10 pm

Online (Lab Section 31): Thursdays, 1:30-3:20 pm

Online (Lab Section 32): Thursdays, 3:30-5:20 pm

Required Texts

Gravetter, F. J., & Forzano, L. B. (2018). *Research methods for the Behavioral Sciences* (6th ed.). Cengage.

Publication manual of the American Psychological Association (7th ed.). (2020). American Psychological Association. <https://doi.org/10.1037/0000165-000>

Course Objectives

In this course, we review the research methods used in psychology, focusing primarily on experimentation. During the semester, we will discuss the issues surrounding what constitutes science and how these apply to psychological research. We will also review the procedures for organizing a psychological experiment, carrying it out, and analyzing its results. As outcomes of instruction and training, students should end the semester able to critically evaluate scientific research, to design and conduct a psychological study, and to write-up a research report in APA style. For the specific course learning outcomes, see below *Psychology Major and PSYC 118 Learning Outcomes*.

Grading

For this course, there will be four midterm examinations. The first two exams will cover the nature of scientific inquiry and experimental and nonexperimental research designs. The second two exams will cover data analysis. The first two midterms will consist of multiple choice and short essay questions; the second two midterms will contain short essay questions and problem sets. In addition to the examinations, students will be expected to complete two article summaries, to participate in online discussion activities, and with a partner, to prepare a literature review, a research proposal, and a final research project. Late assignments will be graded down unless special arrangements for extenuating circumstances have been made *ahead of time* with the instructor. Course grades will be based on the exams and assignments with points distributed as follows:

Design Exams:	40 points (15 & 25 points)	Preliminary Introduction:	5 points
Data Analysis Exams:	30 points (15 points each)	Preliminary Methods:	5 points
Article Summaries:	10 points (5 points each)	Research Proposal:	40 points
ANOVA Homework:	15 points (5 points each)	Research Report:	60 points
Prep Assignment	5 points	Research Presentation:	10 points
Activity Participation	20 points		

All grades will be assigned on an absolute scale (i.e., 90% = A; 80% = B; 70% = C); however, this scale may be modified depending on how the class does as a whole. Students are expected to turn in their assignments on the dates specified on the course calendar and in the course online modules. Overdue assignments will be graded down 5% for each day that they are late. Students who miss a midterm may make up the exam within four days of the original examination provided that they can demonstrate and document that their absence on the day of the exam was due to circumstances beyond their control. No make-up exams will be given four-day beyond the original exam date or for undocumented reasons.

Special Note on Credit Hours: Federal guidelines require that for each unit of course credit, students must have each week one hour of classroom instruction, or its equivalent, and a minimum of two hours of out-of-class work. As a three-unit course, Advanced Research Methods requires that students devote an average of six hours per week to their assigned readings, projects, and review of the course material.

Academic Honesty and Attendance

All students are expected to be familiar with SJSU's policies on academic honesty and attendance as outlined in the University catalog. As cheating undermines the learning process, the instructor reserves the right to assign a grade of *F* to any student who represents the work or ideas of another person as his/her own. For more on university policies on academic integrity, communication, and attendance, see below *SJSU Policies on Academic Integrity, Attendance, E-mail, and Deadlines*.

Learning Disabilities

Reasonable and appropriate accommodations for individuals with qualifying disabilities are extended through SJSU's Accessible Education Center. Students with disabilities are encouraged to contact the AEC office by phone at 408-924-6000, by e-mail at aec-info@sjsu.edu, or online at <https://www.sjsu.edu/aec> to arrange for needed class accommodations. The instructor will make provisions for students in line with the AEC's instructions. For more on disability support services, see below *SJSU Academic Support and Counseling Services*.

**PSYCHOLOGY 118 – ADVANCED RESEARCH METHODS
CALENDAR**

Date	Topics/Assignments	Readings
January 25	Nature of Scientific Inquiry	<i>Research Methods</i> , chapter 1 <i>APA Manual</i> , chapter 1
January 30 February 1	Developing Research Ideas 📖 <i>Research Idea & Article List Due</i>	<i>Research Methods</i> , chap. 2; <i>APA Manual</i> , chap. 9; plus Music & Cognition Articles
February 6 February 8	Validity and Reliability 📖 <i>Article Summary 1 Due</i>	<i>Research Methods</i> , chs. 3 & 6; <i>APA Manual</i> , chapter 2
February 13 February 15	Fundamentals of Design ✍ <i>Midterm #1 (In Class)</i>	<i>Research Methods</i> , chapters 6 & 7; <i>APA Manual</i> , chapters 4
February 20 February 22	Fundamentals Continued 📖 <i>Article Summary #2 Due</i>	<i>Research Methods</i> , chs. 7 & 8 plus selected readings
February 27 February 29	Within-Subjects Designs 📖 <i>Early Intro Draft Accepted</i>	<i>Research Methods</i> , chapter 9 plus selected readings
March 5 March 7	Complex Experimental Designs 📖 <i>Introduction Draft Due</i>	<i>Research Methods</i> , chapter 11 plus selected readings
March 12 March 14	Quasi-Experimental Research 📖 <i>Method Draft Due</i>	<i>Research Methods</i> , chap. 10 plus selected reading
March 19 March 21	Descriptive Research Methods ✍ <i>Midterm #2 (In Class)</i>	<i>Research Methods</i> , chapter 13
March 26 March 28	Ethics & Proposal Preparation 📖 <i>Research Proposal Due</i>	<i>Research Methods</i> , chapters 4 & 16
April 2 & 4	Spring Break (No Classes)	
April 9 April 11	Between-Subjects ANOVA/SPSS Lab 🖨 <i>ANOVA Homework #1 Due</i>	<i>Research Methods</i> , chap. 15 plus pp. 458-465
April 16 April 18	Within-Subjects ANOVA/SPSS Lab 🖨 <i>ANOVA Homework #2 Due</i> ✍ <i>Data Analysis Midterm #1 (Take Home)</i>	<i>Research Methods</i> , chap. 15, plus pp. 481-488
April 23 April 25	Multifactor ANOVA/SPSS Lab 🖨 <i>ANOVA Homework #3 Due</i>	<i>Research Methods</i> , pp. 465-470 and 489-494
April 30 May 2	Correlational Design & Analysis ✍ <i>Data Analysis Midterm #2 (In Class)</i>	<i>Research Methods</i> , chap. 13
May 7 May 9	Final Report Preparation & 📖 <i>Preliminary Data Summaries</i>	<i>Research Methods</i> , chap. 16; <i>APA Manual</i> , chapter 7
May 16 May 17	📖 <i>Lab 32 Presentations (2:45-5:00 pm)</i> 📖 <i>Lab 31 Presentations (12:15-2:30 pm)</i>	
May 17	📖 <i>Final Reports Due</i>	

Note 1: This calendar is flexible, and dates and topics are subject to modification.

Note 2: Assigned readings are to be completed prior to the class meeting.

Note 3: There is no final exam for this course. However, during finals week, Lab Section 32 will meet on Thursday, May 16 (2:45-5:00 pm) and Lab Section 31 will meet on Friday, May 17 (12:15-2:30 pm) for report presentations.

Note 4: Completed research proposals may be submitted anytime on or before March 28 for review. Final research reports are due no later than 6:00 pm, Friday, May 17.

Additional University, Program, and Course Information

SJSU Department of Psychology Learning Outcomes

The SJSU psychology program overall provides instruction and experiences that support the following learning outcomes.

1. **Knowledge Base of Psychology**
 - Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
2. **Research Methods in Psychology**
 - Design, implement, and communicate basic research methods in psychology, including research design, data analysis, and interpretations.
 - *For Bachelor of Science Students:* Design, implement, and communicate advanced research methods in two or more focused domains within psychology, including research design, data analysis, and interpretations within each domain.
3. **Critical Thinking Skills**
 - Use critical and creative thinking, skeptical inquiry, and a scientific approach to address issues related to behavior and mental processes.
4. **Applications of Psychology**
 - Apply psychological principles to individual, interpersonal, group, and societal issues.
5. **Values in Psychology**
 - Value empirical evidence, tolerate ambiguity, act ethically, and recognize one's role and responsibility as a member of society.

Psychology 118 Course Learning Outcomes (CLOs)

(The corresponding major outcomes are indicated in parentheses)

- Explain how the scientific method is employed in psychological research. (1)
- Describe the key features and advantages of the different methodologies used in psychological research. (1)
- Identify and describe the primary features of the basic experimental designs used in psychological research. (1)
- Critically evaluate the validity and reliability of psychological measures and psychological studies. (3)
- Design and conduct a controlled psychological experiment. (2, 3)
- Apply analysis of variance and other statistical techniques to analyze the results of a psychological experiment. (2, 3)
- Articulate and apply the research requirements necessary to protect human subjects. (5)
- Compose a research report following the guidelines of the American Psychological Association (2, 3)

The numbers in parentheses indicate the Psychology program outcome met by each CLO. For weekly course learning outcomes, refer to learning outcomes under each Canvas module.

Grading Policy

Examinations. For this course, there will be four in-class midterm examinations. The first two exams will cover the nature of scientific inquiry and experimental design. The second two exams will cover data analysis. The first two midterms will consist of multiple choice and short essay questions; the second two midterms will contain short essay questions and problem sets. All exams will be conducted through Canvas. Exam grades with comments will be posted on Canvas on the day of the next class meeting (i.e., the Tuesday following a Thursday examination).

Reports and Participation. In addition to the examinations, students will be expected to complete two article summaries, to participate in online discussion activities, and with a partner, to prepare a literature review, a research proposal, and a final research project. Grades and feedback will be provided for all written work by the online meeting following their due date (i.e., a paper due on a Thursday will be rubric graded and posted with comments by the following Thursday lab meeting). Late assignments will be graded down unless special arrangements for extenuating circumstances have been made *ahead of time* with the instructor.

Point Distribution. Course grades will be based on the exams and assignments with points distributed as follows:

Preparation Assignment	5 points
Design Midterms	40 points (15 and 25 points)
Data Analysis Midterms	30 points (15 points each)
Article Summaries	10 points (5 points each)
ANOVA Homework	15 points (5 points each)
Intro and Method Drafts	10 points (5 points each)
Research Proposal	40 points
Research Report	60 points
Research Presentation	10 points
Activity Participation	20 points

Grading Scale. Grading overall will be done on an absolute scale based on the percentages out of 240 possible points overall.

- 97.00-100%: A+
- 93.00-96.99: A
- 90.00-92.99: A-
- 87.00-89.99: B+
- 83.00-86.99: B
- 75.00-79.99: C+
- 70.00-74.99: C
- 65.00-69.99: C-
- 60.00-64.99: D+
- 55.00-59.99: D
- below 55%: F

SJSU Policies on Academic Integrity, Attendance, E-mail, and Deadlines

Academic Integrity

The University considers honesty vital to its academic life. Therefore, it requires that students learn and abide by the standards of honesty expected in an academic community. See the University catalog for further clarification on this point. In general, academic honesty requires that students: (1) submit work that is clearly and unmistakably their own; (2) properly represent information and give adequate acknowledgement to all sources that were used in the preparation of an assignment; (3) neither seek, accept, nor provide any assistance on tests, quizzes, and/or assignments unless explicitly permitted to do so by the instructor. For more information, see the [University Policy on Academic Integrity](#).

Attendance

Attendance is the responsibility of the student. Students are expected to attend all meetings for their courses, as they are responsible for all material covered, and active participation is frequently essential to ensure maximum benefit to all class members. PSYC 118 meets in-person on Tuesdays and online on Thursdays, and students are expected to attend the in-person and online meetings. For more information, see the [University Policy on Class Presence](#).

Email Communication

The Family Educational Rights and Privacy Act of 1974 (FERPA) requires careful protection of a student's academic record. This record includes materials and communications regarding grades, degree planning, performance, assessment, and most other matters documented or discussed between a student and faculty member. One way to ensure that the student – and only the student – is reading email correspondence from SJSU faculty, staff, or administrators is to require students to use their password-protected SJSU email account when communicating regarding school-related matters. For similar reasons, faculty should use their password-protected SJSU email accounts when communicating with students or with other SJSU personnel regarding student academic matters.

Add/Drop/Withdrawal Deadlines

See the academic calendar for all academic deadlines: <https://www.sjsu.edu/registrar/calendar/fall-2023.php>. The last day to add a class or drop a class without a "W" mark is Friday, September 15. Students are responsible for knowing the deadlines, procedures, and consequences for dropping courses.

SJSU Academic Support and Counseling Services

Peer Connections

Peer Connections is the campus-wide resource for mentoring and assisting students with:

- Adjusting to college
- Goal planning
- Time management
- Organization and study skills
- Learning strategies
- Answering questions and directing students to campus resources

Peer Connections further provides tutoring for over 200 different courses and for undergraduate writing as well as classroom support through Supplemental Instruction Leaders, Learning Assistants, Peer Mentors, and Embedded Tutors. Your instructor will announce whether a Peer Educator is in your class. All services are free to SJSU students.

Visit the [Peer Connections](#) website for more information on services, hours, locations, or a list of current student success workshops. To make appointments for mentoring or tutoring, you can visit [Spartan Connect](#) and log in using your SJSU student ID number and password.

Psychological Counseling Services

The SJSU Counseling and Psychological Services is located on the corner of 7th Street and San Carlos in the new Student Wellness Center, Room 300B. Professional psychologists, social workers, and counselors are available to provide confidential consultations on issues of student mental health, campus climate, or psychological and academic issues on an individual, couple, or group basis. The Center also offers workshops for students every semester.

By participating in counseling service activities, students can:

- Develop capacity for self-awareness, both personally and as members of a vibrant and diverse community
- Explore thoughts and feelings about what is working and not working
- Learn to address a range of issues affecting health and well-being
- Practice new ways of understanding and being in the world

To schedule an appointment or learn more information, visit the [Counseling and Psychological Services](#) website.

Disability Services

SJSU strives to be inclusive, accessible, and in compliance with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act by ensuring that reasonable and appropriate accommodations are made for students with disabilities. Appropriate accommodations for individuals with qualifying disabilities are extended through SJSU's Accessible Education Center. Students with disabilities are encouraged to contact the AEC office by phone at 408-924-6000, by e-mail at aec-info@sjsu.edu, or online at <https://www.sjsu.edu/aec/> to record and make arrangements for needed accommodations. Instructors will make provisions for students in line with the AEC's instructions.

SJSU Cares

Students experiencing challenges meeting their basic needs including, but not limited to, access to food, shelter, and a safe space are encouraged to contact [SJSU Cares](#). Students who feel that their class performance may be affected by these challenges are encouraged to notify their professors, if comfortable doing so. Faculty members may be able to provide flexibility within the course for students working with a case manager.

SJSU Library

[The SJSU Library](#) provides online and in-person reference services to all HNU students, faculty, and staff. Journal articles, research guides, and ebooks are available online by logging into the library portal. You can access psychology-related resources at <https://libguides.sjsu.edu/psychology>. For assistance, contact the library liaison for Psychology, Christa Bailey at christa.bailey@sjsu.edu.

Canvas 24/7/365 Help

Contact Canvas Support for any issues or questions related to using Canvas (the Learning Management System you are using right now). Canvas Support is available 24 hours a day, 7 days a week. Click on the question mark (?) icon in the far left navigation menu or call 877 404-5570.

Writing Center

The SJSU Writing Center offers a variety of free resources to help students become better writers. The center offers writing resources, workshops, and one-on-one and small-group tutoring sessions. Services support writing for students in all disciplines and at all levels. The SJSU Writing Center has two in-person locations, Clark Hall, Suite 126 and MLK Library, 2nd floor. Workshops and tutoring are also available through online platforms. Visit the [Writing Center](#) website to make an appointment, or to use the many resources available online.

Student Technology Resources

Computer labs and other resources for student use are available in:

- [Associated Students Print & Technology Center](#), in the Student Union (East Wing 2nd floor Suite 2600)
- [The Spaces and Technology](#) page at the MLK Library.
- [Student Computing Services](#).
- [Computers at the Martin Luther King Library](#) for the public at large
- Additional computer labs may be available in your department/college

A wide variety of audio-visual equipment is available for student checkout from [Collaboration & Academic Technology Service](#) located in IRC Building. These items include DV and HD digital camcorders; digital still cameras; video, slide and, overhead projectors; DVD, CD, and audiotape players; sound systems, wireless microphones, projection screens, and monitors.