

**San José State University  
Kinesiology Department  
KIN 250, Fundamentals of Quantitative Research**

Instructor:	Dr. Bethany Shifflett
Office Location:	SPX 83
Telephone:	408-924-3016
Email:	<a href="mailto:bethany.shifflett@sjsu.edu">bethany.shifflett@sjsu.edu</a>
Office Hours:	Mondays, Wednesdays, noon - 1pm; and by appointment
Class Days/Time:	Thursdays, 4-6:45
Classroom:	Clark Hall 111

### **Web Resource**

Copies of course materials such as the syllabus, worksheets, etc. may be found on the e-campus web site: D2L: [www.sjsu.edu/ecampus](http://www.sjsu.edu/ecampus). You are responsible for regularly checking D2L for information and messages.

### **Course Description**

Design, analysis and interpretation of quantitative research. Topics include: ethics in research, research design and analysis issues, psychometrics, descriptive statistics, parametric and non-parametric inferential statistics..

### **Course Goals and Student Learning Objectives**

Following lectures, assigned reading, and worksheets, students will be able to demonstrate through a project, article critique, and exams their ability to:

- ▶ Explain the fundamental characteristics of quantitative research and their relevance to the field of Kinesiology.
- ▶ Design research incorporating various quantitative modes of inquiry.
- ▶ Identify a research problem in Kinesiology best addressed with a quantitative or mixed-methods approach.
- ▶ Apply APA style in writing.
- ▶ Demonstrate competence in utilizing library resources for research.

- ▶ Articulate ethical issues in research.
- ▶ Critique quantitative research in Kinesiology.
- ▶ Understand quantitative research issues that affect the quality of research.
- ▶ Demonstrate competence in data analysis.
- ▶ Use appropriate software in the research process.
- ▶ Demonstrate proficiency in written communication.
- ▶ Discern when and how to take into consideration group characteristics (eg. age, gender, culture) when analyzing data.

### **Program Learning Outcomes (PLO)**

Students will be able to:

- Conduct and critique research using theoretical and applied knowledge.
- Interpret and apply research findings to a variety of disciplines within Kinesiology.
- Effectively communicate essential theories, scientific applications, and ethical considerations in Kinesiology.
- Acquire skills to become agents of change to address issues in Kinesiology through the application of knowledge and research.

### **Required Texts**

- ▶ Baumgartner & Hensley, Conducting and Reading Research in Health and Human Performance (4th edition). 3rd edition less expensive and equally good resource.
- ▶ Course reader required. Available at [https://students.universityreaders.com/store/..](https://students.universityreaders.com/store/)

### **Recommended Texts/Software**

- ▶ Cronk, How to use SPSS
- ▶ Pyrczak, Evaluating Research in Academic Journals
- ▶ SPSS. If you do not have time to spend on campus it would be essential to have the software.

### **Class Notes**

- ▶ The university has a site license for software used in this class. You can obtain an installation disk (\$15) from the help desk on the ground floor of Clark Hall.
- ▶ Set aside time each week (6hr) for this class. Use class discussion board (D2L) to get help from peers and instructor.
- ▶ This course satisfies the SJSU Graduation Writing Assessment Requirement (GWAR) when you earn a grade of at least B.
- ▶ It is important that you take notes in class even though you have a course reader and information is available on D2L site.

- ▶ You should save class work to a memory stick and bring completed worksheets and data sets to class.
- ▶ Worksheets, practice tests, and practice items are on the D2L web site. Complete all as they are excellent preparation for exams and quizzes.
- ▶ Engagement throughout the course is expected. This includes speaking, individual and group interaction, online communication, and various classroom activities.
- ▶ SPSS is available on computers in the CASA computer lab (MH 332), on the library's laptops, and in the open use area of the student success center in Clark Hall (ground floor).
- ▶ Take advantage of my office hours (by appointment or drop in).
- ▶ Course component grades and final grade will be posted in D2L.
- ▶ Extra credit work will not be given. Exams and quizzes may not be re-scheduled. Project will not be accepted late.
- ▶ Please do not tape lectures.

## Assignments and Grading Policy

### Grading Plan

25%: Exam 1

25%: Exam 2

30%: Research Project

20% Quizzes

Grading Scale	
90 – 100%	A- to A+
80 – 89%	B- to B+
70 - 79%	C- to C+
60 – 69%	D- to D+
< 60%	F

### Definition of a Credit Hour

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of forty-five hours over the length of the course. As an example, the expectation of work for a 3-credit course is 150-minutes of direct faculty instruction and six hours of out-of-class student work each week.

## University Policies

### Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester's Catalog Policies section at <http://info.sjsu.edu/static/catalog/policies.html>. Add/drop deadlines can be found on the current academic calendar web page at [http://www.sjsu.edu/provost/Academic\\_Calendars/](http://www.sjsu.edu/provost/Academic_Calendars/). The Late Drop Policy is available at <http://www.sjsu.edu/aars/policies/latedrops/policy/>. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the Advising Hub at <http://www.sjsu.edu/advising/>.

### Academic integrity

Your commitment as a student to learning is evidenced by your enrollment at San Jose State University. The University's Academic Integrity policy, located at <http://www.sjsu.edu/senate/S07-2.htm>, requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at <http://www.sjsu.edu/studentconduct/>.

Instances of academic dishonesty will not be tolerated. Cheating on exams or plagiarism (presenting the work of another as your own, or the use of another person's ideas without giving proper credit) will result in a failing grade and sanctions by the University. For this class, all assignments are to be completed by the individual student unless otherwise specified. If you would like to include your assignment or any material you have submitted, or plan to submit for another class, please note that SJSU's Academic Integrity Policy S07-2 requires approval of instructors.

### Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 at [http://www.sjsu.edu/president/docs/directives/PD\\_1997-03.pdf](http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf) requires that students with disabilities requesting accommodations must register with the Disability Resource Center (DRC) at <http://www.drc.sjsu.edu/> to establish a record of their disability.

## **Writing Center**

The Writing Center in Clark Hall 126 offers tutoring services to San José State students in all courses. Writing Specialists assist in all areas of the writing process, including grammar, organization, paragraph development, coherence, syntax, and documentation styles. For more information, visit the Writing Center website at <http://www.sjsu.edu/writingcenter> <<http://www.sjsu.edu/writingcenter>> or call 924-2308. The center is staffed by professional instructors and upper-division or graduate-level writing specialists from each of the seven SJSU colleges.