San José State University
Kinesiology Department
Spring 2021, KIN 175, Measurement & Evaluation

Instructor:	Dr. Bethany Shifflett
Office Location:	SPX 173C (not applicable Spring 2021)
Email:	bethany.shifflett@sjsu.edu (best way to reach Dr. Shifflett)
Online Office Hours:	1:00-2:00pm Tuesdays; 3:00-4:00pm Thursdays; and by appointment
Class Meetings:	Online (synchronous) Tuesdays 4-5:50pm
Lab Meetings:	Online (synchronous) Fridays 10am, noon, 2pm
Prerequisites:	KIN 70; GE Math (e.g., stat 95, Math 10)

Course Description

Designed to develop an understanding of measurement and evaluation concepts relevant to assessment in the psychomotor, cognitive and affective domains. Activities include collection and computer analysis of data. Prerequisites: KIN 70; GE Math Course.

> Upload to Canvas evidence in a word file (e.g., copy-paste or screen shot info from transcript to a word file) showing pre-requisites by the 2nd Friday lab.

Web Resource

Course materials, including the course calendar, may be found on the e-campus web site: http://www.sjsu.edu/at/ec/canvas/. You are responsible for regularly checking the Canvas discussion board, announcements, and email for information and messages. Login using your MySJSU username and password.

Course Goals and Student Learning Objectives

Following lectures, assigned readings, and practice, students will be able to demonstrate through exams and quizzes

▸ the ability to apply measurement concepts and theory to assess performance in the cognitive, affective and motor domains
▸ the ability to communicate measurement and statistical concepts and their application for assessment of performance in Kinesiology
▸ the ability to discern when and how to take into consideration group characteristics (e.g., age, gender, culture) in order to examine social justice and equity issues in Kinesiology.
▸ the ability to 1) construct, evaluate, and administer cognitive and skills tests, 2) carry out, interpret, and report statistical analysis of data for both formative and summative evaluation, 3) select appropriate techniques for assessment of performance in various situations, 4) assess objectivity, reliability and validity of classifications and scores, 5) use software (SPSS) to analyze data, and 6) make criterion referenced (CR) and norm referenced (NR) interpretations of data.
▸ knowledge of techniques and issues (test construction, administration, evaluation) surrounding assessment in the motor, cognitive and affective domains.

Kinesiology Program Learning Outcomes (PLO)

At the end of a Bachelor of Science degree program in the Department of Kinesiology students should be able:

- explain, identify, and/or demonstrate the theoretical and/or scientific principles that can be used to address issues or problems in the sub-disciplines in kinesiology.
- effectively communicate in writing (clear, concise and coherent) on topics in kinesiology.
- effectively communicate through an oral presentation (clear, concise and coherent) on topics in kinesiology.
- utilize their experiences across a variety of health related and skill-based activities to inform their scholarship and practice in the sub disciplines in kinesiology.
- identify and analyze social justice and equity issues related to kinesiology for diverse populations.

Required Texts/Readings

Course reader required. Available at Maple Press (located at 330 South 10th Street). Price: ~$10

Additional Resources

- Software: available here: http://www.sjsu.edu/it/services/collaboration/software/instructions.php
    - The university has a site license for the software (SPSS) used in this class. To get a copy for free, you can download the software from the above URL.
    - The university makes available to students, for free, Microsoft Office (Word, Excel, PowerPoint). You can obtain the software from the above URL.
- Dr. Shifflett's SPSS Guide (optional) - specific to KIN 175 - available at Maple Press. Price: ~$4.00
- An optional text is available through the bookstore: How to Use SPSS Statistics: A Step-by-Step Guide to Analysis and Interpretation by Brian Cronk - ISBN 1-884585-92-2 (Publisher: Pyrczak). Price range depending on type (paper/hard cover), edition and where purchased: $20 - $65
- Though containing resources far beyond this course, linkedIn learning provides access to several tutorials, including ones for SPSS. This resource is accessed through one.sjsu.edu.

Class Notes

- Set aside time each week (6hr) for this class. You should not take this course in a semester when it will be difficult to find plenty of time to invest in this class.
- Labs and practice materials are on the Canvas web site. Complete all as they are excellent preparation for quizzes and exams.
- You should save data analysis work and data files from every lab as they will be needed for bonus items and quizzes.
- SPSS is available on the library's laptops and in the open use area near the help desk in Clark Hall (ground floor).
- Take advantage of online office hours.
- Scores and final grades will be posted on Canvas.
- Individual extra credit work will not be given.
- Students may not record any sessions (including class lectures/labs, office hours, advising, etc.). Zoom sessions will not be recorded however, videos of major topics are available on Canvas.
- Course materials developed by Dr. Shifflett (e.g., syllabus, exam/quiz items and answers, videos, labs or solutions, lecture notes), are her intellectual property and cannot be shared in any form without her permission.
- Violations of academic integrity will be reported to the Student Conduct and Ethical Development office. Note: Grade forgiveness does not apply to courses for which the original grade was the result of a finding of academic dishonesty.
- Classroom protocol: It is expected that you will arrive on time for all class meetings and labs, come prepared with work done in advance when needed, take notes throughout lectures, limit distractions (e.g., cell phones, notifications, multitasking) and conduct yourself in a respectful and professional manner.
    - Online notes:
        - If you log on before start time, you'll be in a waiting room and Dr. Shifflett will let you into the zoom session from there.
        - Video and audio will be off by default. Leave them this way throughout sessions except for times when you have questions.

Course Requirements and Grading

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. This would include preparing for class, participating in course activities, and completing assignments/labs. Generally this will amount to 6 hours a week outside of class. Out of 250 points, 175 points are needed to pass (C-).

Course Component	Points
Exam 1 Exam 2 Exam 3 Quizzes	50 points 55 points 60 points 85 points

Grading Scale used to determine final grade for the course.

Percentage Earned	Equivalent Grade
97% - 100%	A+
93% - 96%	A
90% - 92%	A-
87% - 89%	B+
83% - 86%	B
80% - 82%	B-
77% - 79%	C+
73% - 76%	C
70% - 72%	C-
67% - 69%	D+
63% - 66%	D
60% - 62%	D-
below 60%	F

Tests

- There will be three exams (on Canvas) covering conceptual information drawn from lecture, discussions, web-based information, course reader, labs, and assigned reading. Item formats may include true-false, multiple choice, hybrid multiple choice & true-false, fill in, or short answer.
    - Exams will not require the use of SPSS.
    - Exams will not be re-scheduled and cannot be made up (extraordinary circumstances considered).
        - Canvas autosaves responses a few times per minute as long as there is an internet connection. A brief loss of internet connection is unlikely to cause you to lose your work. However, if you experience a long loss of connectivity, continue taking the exam but record you answers in a word file (in addition to Canvas); if you are not able to submit answers via Canvas, send the word file as an attachment to email to Dr. Shifflett before the end of the exam period and explain the problem.

Quizzes

- There will be 7 timed quizzes covering conceptual and analytical information drawn primarily from the course text, readings, lecture, and labs. Item formats may include multiple choice, short answer, true-false, and fill in. Quizzes will include analytical work requiring the use of SPSS.
  - Each quiz is taken one time in lab. Quizzes will not be re-scheduled (extraordinary circumstances considered) though one quiz can be made up.

Bonus Activities

- Team Data Analysis: In lab, this is a team-based activity surrounding data analysis. 10 bonus points possible.
- Bonus quiz: There will be a bonus quiz (10 points possible) on the last topic of the course.

Campus Resources

Per University Policy S16-9 (http://www.sjsu.edu/senate/docs/S16-9.pdf), relevant university policy concerning all courses, such as student responsibilities, academic integrity, accommodations, dropping and adding, consent for recording of class, etc. and available student services (e.g. learning assistance, counseling, and other resources) are listed on the Syllabus Information web page (https://www.sjsu.edu/curriculum/courses/syllabus-info.php). Make sure to visit this page to review and be aware of these university policies and resources.

SJSU Technical Support:

Email: ecampus@sjsu.edu
Phone: (408) 924-2337
Web: https://www.sjsu.edu/ecampus/support/

Note: SJSU has a free equipment loan program available for students.

Course Calendar - changes with reasonable notice will be posted on Canvas

KIN 175 Spring 2021 Calendar			1/29 Introduction; Measurement Scales; Using SPSS; data collection set up
2/2 Assessment; Percentages; SPSS - FDT, Xtabs	2/5 Lab 1 Review SPSS Pre-req upload due	2/9 Normal Curve; CT, Variability;	2/12 Lab 2; Quiz 1 (percentages, CT, V)
2/16 Review; Percentiles;	2/19 Lab 3; Quiz 2 (normal curve, percentiles)	2/23 Correlation, Prediction;	2/26 Lab 4; Quiz 3 (correlation, prediction)
3/2 Cognitive Assessment Item Analysis;	3/5 Lab 5; Quiz 4 (cog. assessment, item analysis); Q&A & QFRs	3/9 **Exam 1**	3/12 **Data File Clean Up (recreational outcomes)**
3/16 Validity (Scores)	3/19 Lab 6; Data File Clean Up (recreational outcomes) **Drop-In help 10am-noon**	3/23 Reliability, Objectivity (Scores)	3/26 Lab 7 (Rel, Obj); Quiz 5 (V,R,O scores)
3/30 SPRING BREAK	4/2 SPRING BREAK	4/6 Mastery Testing Validity (Classifications);	4/9 Lab 8; Bonus Team Data Analysis (using recreational outcomes data file)
4/13 Reliability, Objectivity (classifications)	4/16 Lab 9; Quiz 6 (V,R,O classifications); Q&A & QFRs	4/20 **Exam 2 - Psychometrics**	4/23 **Drop-In Help noon-1pm**
4/27 Assessment motor domain - basic abilities; sport skills; physical fitness	4/30 Lab 10 Make up (one quiz)	5/4 Assessment - Affective Domain; Grading	5/7 Lab 11; Quiz 7 (assess motor & affective domains; grading)
5/11 Standard Scores & Data Profiling	5/14 Lab 12; Q&A & QFRs; Bonus Quiz	Final Exam: Wednesday, 5/19, 2:45-5pm Note: Wednesday 5/26 is SJSU's make up day	