

## SYLLABUS

<b>DATE OF LAST REVIEW:</b>	Fall 2019
<b>CIP CODE:</b>	24.0101
<b>SEMESTER:</b>	Departmental Syllabus
<b>COURSE TITLE:</b>	Statistics in Social Science Research
<b>COURSE NUMBER:</b>	PSYC-0205
<b>CREDIT HOURS:</b>	3
<b>INSTRUCTOR:</b>	Departmental Syllabus
<b>OFFICE LOCATION:</b>	Departmental Syllabus
<b>OFFICE HOURS:</b>	Departmental Syllabus
<b>TELEPHONE:</b>	Departmental Syllabus
<b>EMAIL:</b>	<i>KCKCC issued email accounts are the official means for electronically communicating with our students.</i>

**PREREQUISITES:** PSYC0101, MATH 105 or higher

**REQUIRED TEXT AND MATERIALS:** Please check with the KCKCC bookstore, <http://www.kckccbookstore.com> for the required text for your particular class.

**COURSE DESCRIPTION:** This course introduces the use of statistical principles and techniques as they relate to analysis and interpretation of psychological data. A wide range of statistical methods are used to analyze data informing the student of how to apply the proper statistical methods to data examples. Descriptive and inferential statistical methods with parametric and nonparametric statistical tools are studied. The course emphasis is to become more knowledgeable of behavioral research through understanding of statistical methods used both in research and in everyday life.

**METHOD OF INSTRUCTION:** A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations,

speeches, debates, and panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs. .

**COURSE OUTLINE:**

- I. General Introduction to Statistics and Research Design
- II. Frequency Distributions
- III. Visual Displays of Data
- IV. Central Tendency and Variability
- V. Sampling and Probability
- VI. The Normal Curve, Standardization, and z-scores
- VII. Hypothesis Testing with z Tests
- VIII. Confidence Intervals, Effect Size, and Statistical Power
- IX. The Single-Sample, Paired-Samples, and Independent-Samples t Test
- X. One-Way ANOVA and Two-Way ANOVA
- XI. Correlation and Linear Regression
- XII. Nonparametric Tests

**EXPECTED LEARNER OUTCOMES:**

- A. The student will be able to describe the scientific process and be able to identify and assess the value of statistical methods.
- B. The student will be able to apply the correct statistical methodology to psychological data.
- C. The student will be able to utilize the appropriate statistical analysis to collected psychological data.
- D. The student will be able to explain the assumptions regarding various statistical tests.
- E. The student will be able to draw conclusions about whether a relationship between or among variables is supported by the results of the study.

**ASSESSMENT OF LEARNER OUTCOMES:** Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

**SPECIAL NOTES:**

This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student's progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college's policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

**ADA Compliance Statement:**

*Disability Services*

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the disabilities services office at (913) 288 -7664.

**Student Code of Conduct and the Student Handbook:**

All enrolled students at Kansas City Kansas Community College are subject to follow all rules, conditions, policies and procedures as described in both the Student Code of Conduct as well as the Student Handbook. All Students are expected to review both of these documents and to understand their responsibilities with regard to academic conduct and policies. The Student Code of Conduct and the Student Handbook can be found on the KCKCC website.

**KCKCC Weapons Policy:**

The Kansas City, Kansas Community College (KCKCCC) has a Prohibited Weapons Policy, Policy 5.12, applicable to all students, staff and guests of KCKCC. All weapons are generally prohibited on KCKCC property except as permitted under the limited circumstances described in the Weapons Policy and under Kansas law.

Please refer to the KCKCC Weapons Policy at [<http://www.kckcc.edu/explore-kckcc/campus/safety/conceal-carry>] or your Student Handbook for more information. Anyone who witnesses a violation of the KCKCC Weapons Policy should contact Campus Police at: 913-288-7636. Violations of federal, state or local laws or KCKCC policies may result in discipline up to and including expulsion from the college, criminal charges and monetary fines for personal injuries and property damage.