

**El Paso Community College**  
**Syllabus**  
**Part II**  
**Official Course Description**

<b>SUBJECT AREA</b>	<u>Psychology</u>								
<b>COURSE RUBRIC AND NUMBER</b>	<u>PSYC 2317</u>								
<b>COURSE TITLE</b>	<u>Statistics and Research Design (F)</u>								
<b>COURSE CREDIT HOURS</b>	<table border="0" style="margin: auto;"> <tr> <td style="text-align: center;"><b>3</b></td> <td style="text-align: center;"><b>3</b></td> <td style="text-align: center;"><b>:</b></td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td style="text-align: center;"><b>Credits</b></td> <td style="text-align: center;"><b>Lec</b></td> <td></td> <td style="text-align: center;"><b>Lab</b></td> </tr> </table>	<b>3</b>	<b>3</b>	<b>:</b>	<b>0</b>	<b>Credits</b>	<b>Lec</b>		<b>Lab</b>
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<b>Credits</b>	<b>Lec</b>		<b>Lab</b>						

**I. Catalog Description**

Examine basic descriptive and inferential statistical concepts as they apply to behavioral science research. Includes the topics of basic experimental design, descriptive statistics, correlation, analysis of variance, and nonparametric analysis, along with Computer Applications. **(3:0)**.

**II. Course Objectives**

Upon satisfactory completion of this course, the student will:

- A. Understand the methodology and statistics used in basic behavioral science research.
- B. Calculate and interpret basic descriptive statistics (such as frequency distribution, measures of central tendency, and measures dispersion).
- C. Calculate and discuss the implications of correlational data.
- D. Discuss how probability helps in making inferences.
- E. Conduct basic statistical methods using a computer, by being able to enter data and interpret results.
- F. Evaluate the appropriate use of statistical and research methodology in the social science research literature.

**III. THECB Learning Outcomes (ACGM)**

Upon successful completion of this course, students will:

- 1. Compute and interpret empirical and theoretical probabilities.
- 2. Define and explain the characteristics of data based on their reliability, validity, and scales of measurement.
- 3. Interpret visual representations of data, such as graphs and tables.
- 4. Compute and interpret descriptive statistics, such as mean, median, and mode; standard deviation and range; and transformed scores.
- 5. Compute and interpret inferential statistics and tests, such as z test, t test, ANOVA, and Chi-Square
- 6. Calculate, evaluate, and interpret simple linear correlation/regression.

7. Construct and interpret confidence intervals.
8. Examine, analyze, and compare various sampling distributions.
9. Formulate, perform, and interpret hypotheses tests.
10. Identify the appropriate statistical analyses for given research problems, questions, hypotheses, and data sets.
11. Apply statistical knowledge to the interpretation of psychological research.
12. Explain features and purpose of statistical software packages.

#### **IV. Evaluation**

##### **A. Remediation**

The opportunity for re-examination is at the discretion of the instructor. Students who perform at an unsatisfactory level should be encouraged to avail themselves of tutoring.

##### **B. Grading**

Course grades will be consistent with the grade descriptions contained in the current EPCC catalog. The student should consult the Instructor's syllabus for greater detail, as the grades are at the discretion of the instructor.

#### **V. Disability Statement (Americans with/Disabilities Act [ADA])**

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

#### **VI. 6 Drop Rule**

Students who began attending Texas public institutions of higher education for first time during the Fall 2007 semester or later are subject to a 6 Drop limit for all undergraduate classes. Developmental; ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

#### **VII. Title IX and Sex Discrimination**

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.