

PALOMAR COLLEGE  
COURSE OUTLINE OF RECORD FOR  
DEGREE CREDIT COURSE

Transfer course     A.A. degree applicable course  
(check all that apply)

**COURSE NUMBER AND TITLE:** Psychology 205/Sociology 205  
Statistics for the Behavioral Sciences

**UNIT VALUE:** 3

**MINIMUM NUMBER OF SEMESTER HOURS:** 48

**BASIC SKILLS REQUIREMENTS:**

Appropriate language skills

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** A minimum of grade "C" in MATH 56 or 60 or eligibility determined through the math placement process.

**COREQUISITE:** None

**RECOMMENDED PREPARATION:** None

**SCOPE OF COURSE:**

Quantitative methods as applied to behavioral science data. Frequency distributions, measure of central tendency, variability, theory of error, measures of significance, correlation, regression, and an introduction to analysis of variance. Also included is an introduction to the use of computers in statistics.

**SPECIFIC COURSE OBJECTIVES:**

Successful students will:

1. apply their knowledge to research problems in areas such as psychology, philosophy, sociology, economics, anthropology and business.
2. learn to critically analyze statistical results in professional journals of their field.
3. organize and analyze data using descriptive statistics.

4. analyze research projects, both experiments and nonexperiments, using inferential statistics such as t-tests, analysis of variance correlation and regression.
5. understand the uses of nonparametric statistics.

**CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

- I. Frequency Distributions
- II. Graphs
- III. Measures of Central Tendency
- IV. Measures of Variation
- V. Standard Scores
- VI. Normal Curve
- VII. Correlation
- VIII. Regression
- IX. Experimental Design
- X. t-Tests
- XI. One-Way Analysis of Variance
- XII. Two-Way Analysis of Variance
- XIII. Nonparametric Statistics

**REQUIRED READING:**

Vernoy, Mark and Judith A. Vernoy, J.A. Behavioral Statistics in Action. 2nd ed. Pacific Grove, CA: Brooks/Cole, 1997.

**SUGGESTED READING:**

None

**REQUIRED WRITING:**

Each test and homework assignment involves either essays or problem solving exercises that require the students to explain the solution to a particular data acquisition problem or data analysis problem and to apply knowledge and use of specific statistical techniques to appropriate experimental designs.

Each of the 3 or more tests will require the students to write approximately four paragraphs explaining their statistical results. The daily homework assignments will require one paragraph each explaining the statistical results.

**OUTSIDE ASSIGNMENTS:**

**Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short term classes.**

Each student will read the text, work problems in the workbook, and complete problem sets assigned by the instructor.

**INSTRUCTIONAL METHODOLOGY:**

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

This course may be offered as a distance education course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes  No

If yes, check all that apply. (See guidelines for preparation for definitions.)

- telecourse
- mediated instruction
- computer assisted instruction

**GRADING POLICY AND STANDARDS** (include methods of determining whether the stated objectives have been met by students):

The students will be graded on a combination of:

Midterm Exams	50%
Problem Sets	15%
Computer Assignments	10%
Final Exam	25%

Grades will be assigned on a straight percentage of the total number of possible points available on the above graded assignments --- 90% = A, 80% = B, 70% = C, 60% = D, and < 60% = F.

**IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?**

Yes  No  Number of times course may be taken for credit: 1

If yes, identify specific provision of Title 5 Division 2 section(s) 55761-55763 and 58161 which qualifies course as repeatable:

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