

**PSY 316 QUANTOTATIVE METHODS
FALL 1999
SYLLABUS**

Instructor:	Marie J Burghardt	
Time/Day:	Thursdays 5:30 – 9:30	Tripler
Texts:	Methods in Behavioral Research, 6 th Edition	Paul C. Cozby
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COURSE DESCRIPTION

This course is an introduction to research methodology of the social and behavioral sciences. This course is designed to provide a fundamental understanding of social and behavioral science research. The course will cover components, issues, and principles of research, and the various research designs and their appellations. A major focus of the course will be on the nature and use of evaluation research.

COURSE OBJECTIVES

1. Student will develop an understanding of the scientific study of behavior.
2. Student will develop an understanding of the ethics involved in social and behavioral science research.
3. Student will develop an understanding of the methods involved in studying behavior.
4. Student will develop an understanding of the descriptive method utilized in studying behavior.
5. Student will develop an understanding of the experimental design in research.
6. Student will develop an understanding of the process of conducting experiments.
7. Student will develop an understanding of the description and correlation in interpreting research results.
8. Student will develop an understanding of the inferential statistics utilized in interpreting research results.
9. Student will develop skills in writing a research report.

REQUIREMENTS:

Students are expected to attend class regularly and to be on time. This is a highly experiential and participatory course. Any student missing two (2) classes will have their earned grade lowered by one letter grade. Any student missing more than two classes will receive a grade no greater than a "C".

Attendance: Regular and prompt attendance is expected of all students.

Research Article presentation: Each student will present a review of a research paper covering an experiment.

Research Paper: Each student will present, at all stages, his/her research project. The classroom process will be interactive in so far as the students and the instructor will analyze and provide feedback for each student on his/her research project. During the last two- (2) class periods, students will present/discuss/submit their completed research paper.

Papers/Assuagements late for all reasons will lose 10% of the score for each day.

Papers/Assignments are due in the first half-hour of the class period on the due date.

Exams; There will be a midterm and a final exam. Exams are not cumulative.

COURSE GRADING

Activity	Points
Journal Critique	100
Research paper	200
Midterm	100
Final	100
Research article presentation	20
Operational definitions of variables used in your research project	10
Hypothesis for your research project	10
List of five (5) references for your research project in APA format	10
Literature review for your research project	10
Trial results for your research project	10
Method description for your research project	10
Total points possible	580
522-580	A
463-521	B
404-462	C
345-403	D
< 345	F

Tentative Course Schedule

WEEK		Reading
1	Introduction, the science of social science. The research process; the research problem; variables; relationships; hypotheses. Discuss research topics	Chapters 1-2 Appendix A, B, C
2	Ethics; review of statistics; literature review. Gathering data; studying behavior. Define research project topic. Research article presentation due	Chapters 3-4 Appendix A, B, C
3	Descriptive statistics; experimental design; internal validity; problems analysis. Bring at least one research article related to your research project. Operational definition of variables for research paper DUE	Chapters 5-6 Appendix A, B, C <i>10</i>
4	Conducting experiments; selecting research participants; manipulating independent variables; measuring dependent variables; controls. Journal critique due	Chapter 7 Appendix A, B, C <i>10-11</i>
5	Research designs; writing reports. Midterm Literature review DUE Introduction to research paper DUE	Chapters 7, 8, 9 Appendix A, B, C <i>11-12</i>
6	Quasi-experimental and single-subject research designs; understanding research results; description and correlation.	Chapters 7, 8, 9 Appendix A, B, C
7	Understanding research results; statistical inference Method for research paper DUE	Chapters 7, 8, 9 Appendix A, B, C
8	EXAM	
9	Presentation of research paper - Paper due	
10	Presentation of research paper - Paper due	