

PSY/SO 316 ⁶⁰ QUANTITATIVE METHODS
INSTRUCTOR: Bryan Man, Ph.D.
OFC/PHONE: E204/735-4850 OFC HRS: MW 9-10 AM; Th 3:30-4:30 P.M.
Or by appointment. E-mail: bman@chaminade.edu

SPRING Even. 2001
T: 16:45-20:55 P.M.

SE '01
Bms

SYLLABUS

COURSE DESCRIPTION: This course is designed to introduce students to research methods and the scientific approach to social and behavioral sciences research. The focus will be on the scientific model of inquiry, the research process, measurement, and the quantitative and qualitative methods of data gathering. Original research will be proposed by each student, according to the principles and techniques learned in the course, and culminating in an end-of-term research proposal.

Quantitative research methods is a "writing intensive" course in the Behavioral Sciences Division. Students will have regular written assignments and the quality of writing will be emphasized in evaluating student progress in the course.

OBJECTIVES: Students are expected to:

1. know and understand the science base of research in the behavioral and social sciences;
2. know and understand the research process;
3. understand and differentiate the various research methods used in the behavioral and social sciences;
4. understand measurement, the measurement process, and the related issues of reliability and validity;
5. develop a research proposal related to the study of psychological or social-cultural issue;
6. work and learn in the spirit of a collaborative and collegial community through participation in-class group assignments, such as developing hypotheses, formulating conceptual and operational definitions, etc.

WRITING ASSIGNMENTS:

1. **Short paper assignments.** Students will be assigned three short papers (2-5 pages) during the term. The papers will focus on the stages of the research process. The style of writing is expected to become increasingly formal, to reflect familiarity with, and understanding of, behavioral sciences research and reporting. Other written assignments may be made as deemed necessary. The student is required to meet the writing standards set by the university.
2. **RESEARCH PAPER:** The research paper (the proposal) will reflect: a) a proper literature review (8-10 sources from scholarly books and journals, with a limit of 3 web sources), b) the principles of valid and reliable measurement and operational definitions, c) method and sampling design and instrument construction, d) identification of appropriate statistical analysis, and e) a references page.

APA style format is required for all papers. See Psych journal articles or the APA Pub. Manual.

Late papers will lose 10% off the score, for each day past the due date. All papers must be typed and follow the writing standards of Chaminade University.

GRADING:	Exams:	50%	
	2 tests (T1=10%, T2=15%)		90-100% = A
	Final	25%	80- 89% = B
	Papers	50%	70- 79% = C
	3 papers	15%	60- 69% = D
	Res. Prop.	35%	x < 60% = F
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	Total:	100%	

EXAMS: The test dates are tentatively scheduled. Any changes to the schedule will be discussed in class at least one week before the scheduled change. Anyone missing the test date will have to make up the test **before the next class period. Unexcused absences from a test will automatically lower the test score by 10% for the student.**

TEXT: Cozby, P. C.. (2001). *Methods in behavioral research*, 7th ed. Mountain View, CA: Mayfield Publishing Company.

COURSE OUTLINE:

- 4/3 Introduction: science & the social research; the research process. Ch. 1
- 4/10 Getting started: The research question and hypotheses . Ch. 2
Ethics in research. Ch. 3
Review where we are with the needs assessment data and report.
Assignment 1. Pick a topic, state a research question, identify sources of literature that would relate to your topic and research question. Type & hand in 4/17
- 4/17 Studying behavior. Ch. 4
Assignment 1 is due 4/17
Test 1 (essay format) Ch. 1-4, lectures
The research proposal; Introduction & Literature Review.
Measurement. Ch. 5
- 4/24 Observational methods I. Ch. 6
- 5/1 **Assignment 2 is due. Your Introduction and Literature Review of your proposed research.**
Observational methods II. Ch. 7
- 5/8 **Test 2 (essay format) Ch. 5-7**
Experimental designs. Ch. 8
Discuss method section of the research proposal.
- 5/15 Conducting experiments. Ch. 9
- 5/22 **Assignment 3. Draft of your method section of your research proposal.**
Complex experimental designs. Ch. 10
- 5/29 Quasi-experimental and single-subject designs. Ch. 11
Overview of the relationship between research methods & data and descriptive and inferential statistics. Ch. 12 & 13
- 6/5 (Tues.) **FINAL EXAM CH. 8-12, lectures 8-13**
Research Proposal Paper is DUE!