PSYCH 1B Course Outline as of Fall 2006

CATALOG INFORMATION

Dept and Nbr: PSYCH 1B Title: INTRO/EXPERIMENTAL PSYCH
Full Title: Introduction to Experimental Psychology
Last Reviewed: 11/27/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	3.00	Lab Scheduled	3.00	6	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	87.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00 Total Student Learning Hours: 157.50

Title 5 Category:	AA Degree Applicable
Grading:	Grade Only
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	

Catalog Description:
Introduction to research methods in psychology. Principles of research design and analysis. Application of these principles to classroom experiments, surveys, and naturalistic observations.

Prerequisites/Corequisites:
Course Completion of PSYCH 1A

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: Introduction to research methods in psychology. Principles of research design and analysis. Application of these principles to classroom experiments, surveys, and naturalistic observations. (Grade Only)
Prerequisites/Corequisites: Course Completion of PSYCH 1A
Recommended:
Limits on Enrollment:
Transfer Credit: CSU;UC. (CAN PSY8)

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**			Effective:	Inactive:
CSU GE:	**Transfer Area**			Effective:	Inactive:
IGETC:	**Transfer Area**			Effective:	Inactive:
CSU Transfer:	Transferable	Effective:	Fall 1981	Inactive:	
UC Transfer:	Transferable	Effective:	Fall 1981	Inactive:	

CID:
CID Descriptor: PSY 200 Introduction to Research Methods in Psychology
SRJC Equivalent Course(s): PSYCH1B

Certificate/Major Applicable:
Not Certificate/Major Applicable

COURSE CONTENT

Outcomes and Objectives:
Upon completion of this course, the student will be able to:
1. Describe the characteristics of the scientific method, and distinguish among nonexperimental and experimental qualitative and quantitative research methods.
2. Summarize sources of research ideas, devise research problems, and formulate hypotheses for these research problems.
3. Evaluate ethical dilemmas among human and animal research subjects according to the APA Code of Ethics.
4. Discriminate between independent and dependent variables when conducting research experiments.
5. Define validity and propose methods for controlling the following variables in order to reduce threat of invalidity in a research experiment: extraneous variables, research participants and experimenter effects, and sequencing effect.
6. Explain the use of randomization, matching, and counterbalancing techniques for the purpose of achieving research constancy.
7. Compare and contrast different research approaches, such as correlational research, surveys, and observational studies.
8. Differentiate the different types of single-case designs (e.g. ABA, interaction, multiple baseline, changing-criterion, and single-case) and identify the situations in which each of the single-case designs would be appropriate.
9. Design and implement a research project from beginning to end.
10. Write a comprehensive research report using the APA (American Psychological Association) format.
11. Demonstrate, in a laboratory setting, knowledge and skills in the following areas:
    a. naturalistic observations

b. surveys
c. correlational research
d. experiments (one-way and/or two-way designs)
e. factorial design experiments

Topics and Scope:

1. Beginning Psychological Research
2. Explanation in Scientific Psychology
3. Exploring the Literature Psychology
4. Observation and Survey in Psychological Research
5. Qualitative and Quantitative Research
6. Correlation/Relational Research
7. Basics of Experimentation
8. Validity and Reliability in Research
9. Experimental Design
10. Complex Design
11. Small-n Experimentation
12. Quasi-Experimentation
13. Conducting Ethical Research
14. Interpreting the Results of Research
15. Presenting Research Results
16. Writing an APA Research Paper

Assignment:

1. Carefully read, approximately 20-25 pages per week, and recapitulate assigned material in the textbook and supplements.
2. Take at least one midterm exam and one final on lectures, reading concepts and terminology.
3. Write at least 3 critical analysis papers, 3 pages in length, on assigned readings and lecture materials.
4. Write a term or course research paper approximately 8-12 pages in length for the purpose of integrating research skills, enhancing course knowledge, and improving writing skills.
5. Upon the discretion of the instructor, oral presentations and group projects may be assigned.
6. Demonstrate in a laboratory setting, knowledge and skills in the following areas:
   a. naturalistic observations
   b. surveys
   c. correlational research
   d. experiments (one-way and/or two-way designs)
   e. factorial design experiments

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Course research papers, critical thought essays	Writing 20 - 30%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Q/A Worksheets	Problem solving 10 - 20%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Laboratory worksheet questions	Skill Demonstrations 20 - 30%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Fill-in, short answers	Exams 30 - 40%

Other: Includes any assessment tools that do not logically fit into the above categories.

Oral presentation, group projects	Other Category 10 - 20%

Representative Textbooks and Materials:

Davis, Stephen F.; Smith, Randolph A.
INTRODUCTION TO STATISTICS AND RESEARCH METHODS: BECOMING A PSYCHOLOGICAL DETECTIVE, Prentice Hall, 2005.

Leedy, Paul; Ormrod, Jeanne E.
PRACTICAL RESEARCH: PLANNING AND DESIGN, Prentice Hall, 2005.

Borden, Kenneth S.; Abbot, Bruce B.
RESEARCH DESIGN AND METHODS, McGraw Hill, 2005

Kantowitz, Barry H.; Roediger, Henry L.; Elmes, David G.
EXPERIMENTAL PSYCHOLOGY - UNDERSTANDING PSYCHOLOGY RESEARCH, Thomson-Wadsworth, 2005.

Christensen, Larry B.
EXPERIMENTAL METHODOLOGY, Allyn & Bacon, 2004.

Graziano, Anthony M.; Raulin, Michael L.
RESEARCH METHODS: A PROCESS OF INQUIRY, Allyn & Bacon, 2004.