

PSYCH 1B Course Outline as of Fall 2008**CATALOG INFORMATION**

Dept and Nbr: PSYCH 1B Title: INTRO/RESEARCH METHODS

Full Title: Introduction to Psychological Research Methods

Last Reviewed: 2/27/2017

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

Total Out of Class Hours: 105.00

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:

Eligibility for ENGL 1A or equivalent and Course Eligibility for MATH 15

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: Eligibility for ENGL 1A or equivalent and Course Eligibility for MATH 15

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: |

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|---------------|----------------------|------------|-----------|
| IGETC: | Transfer Area | Effective: | Inactive: |
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| CSU Transfer: Transferable | Effective: | Fall 1981 | Inactive: |
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| UC Transfer: Transferable | Effective: | Fall 1981 | Inactive: |
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CID:

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

Certificate/Major Applicable:

Major Applicable Course

COURSE CONTENT

Outcomes and Objectives:

Upon completion of this course, students will be able to:

1. Describe the characteristics of the scientific method, and distinguish between 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 variables to reduce threat of invalidity in a research experiment.
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 among the different types of single-case designs and identify the situations in which each of the designs would be appropriate.
9. Design and implement a research project from beginning to end.
10. Write a comprehensive research report using the APA format.
11. Demonstrate 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. Read approximately 20-25 pages per week, recapitulate assigned material in the textbook and supplements and complete Q/A worksheets.
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 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
7. Q/A worksheets

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.

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| Course research papers, critical thought essays |
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| Writing 25 - 35% |
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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.

None

Skill Demonstrations
0 - 0%

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

Multiple choice, true/false, fill-in, short answers

Exams
25 - 35%

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, 2006.

Graziano, Anthony M.; Raulin, Michael L.

Research Methods: A Process of Inquiry, Allyn & Bacon, 2006.