

# PSY R104: INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY

**Originator**

Ichaparro

**College**

Oxnard College

**Discipline (CB01A)**

PSY - Psychology

**Course Number (CB01B)**

R104

**Course Title (CB02)**

Introduction to Experimental Psychology

**Banner/Short Title**

Intro Experimental Psychology

**Credit Type**

Credit

**Start Term**

Fall 2021

**Catalog Course Description**

This psychological methods course emphasizes research design; experimental procedures and techniques; descriptive methodology; and the collection, analysis and interpretation of research data.

**Taxonomy of Programs (TOP) Code (CB03)**

2001.00 - Psychology, General

**Course Credit Status (CB04)**

D (Credit - Degree Applicable)

**Course Transfer Status (CB05) (select one only)**

A (Transferable to both UC and CSU)

**Course Basic Skills Status (CB08)**

N - The Course is Not a Basic Skills Course

**SAM Priority Code (CB09)**

E - Non-Occupational

**Course Cooperative Work Experience Education Status (CB10)**

N - Is Not Part of a Cooperative Work Experience Education Program

**Course Classification Status (CB11)**

Y - Credit Course

**Educational Assistance Class Instruction (Approved Special Class) (CB13)**

N - The Course is Not an Approved Special Class

**Course Prior to Transfer Level (CB21)**

Y - Not Applicable

**Course Noncredit Category (CB22)**

Y - Credit Course

**Funding Agency Category (CB23)**

Y - Not Applicable (Funding Not Used)

**Course Program Status (CB24)**

1 - Program Applicable

**General Education Status (CB25)**

Y - Not Applicable

**Support Course Status (CB26)**

N - Course is not a support course

**Field trips**

May be required

**Grading method**

Letter Graded

**Does this course require an instructional materials fee?**

No

**Repeatable for Credit**

No

**Is this course part of a family?**

No

**Units and Hours**

**Carnegie Unit Override**

No

**In-Class**

**Lecture**

**Minimum Contact/In-Class Lecture Hours**

52.5

**Maximum Contact/In-Class Lecture Hours**

52.5

**Activity**

**Laboratory**

**Total in-Class**

**Total in-Class**

**Total Minimum Contact/In-Class Hours**

52.5

**Total Maximum Contact/In-Class Hours**

52.5

**Outside-of-Class**

**Internship/Cooperative Work Experience**

**Paid****Unpaid****Total Outside-of-Class****Total Outside-of-Class****Minimum Outside-of-Class Hours**

105

**Maximum Outside-of-Class Hours**

105

**Total Student Learning****Total Student Learning****Total Minimum Student Learning Hours**

157.5

**Total Maximum Student Learning Hours**

157.5

**Minimum Units (CB07)**

3

**Maximum Units (CB06)**

3

**Prerequisites**

PSY R101; and PSY R103 or MATH R105 or MATH R105H

**Entrance Skills****Entrance Skills**

Ability to interpret statistical data and use statistics in designing and validating research.

**Prerequisite Course Objectives**

MATH R105-Distinguish among different scales of measurement and their implications

MATH R105-Interpret data displayed in table(s) and graphically

MATH R105-Apply concepts of sample space, probability, and counting techniques

MATH R105-Calculate measure of central tendency and variation for a given data set

MATH R105-Identify the standard measures of obtaining data and identify advantages and disadvantages of each (i.e. use appropriate language)

MATH R105-Calculate the mean and variance of discrete distribution(s)

MATH R105-Calculate probability using normal and t-distributions

MATH R105-Distinguishing the difference between sample and population distributions and analyze the role played by the Central Limit Theorem

MATH R105-Construct and interpret confidence intervals

MATH R105-Determine and interpret levels of statistical significance (e.g. p-values)

MATH R105-Interpret the output of a technology-based statistical analysis

MATH R105-Identify the basic concepts of hypothesis tests involving Type I and II errors

MATH R105-Determine the appropriate hypothesis test involving samples from one and two populations, conduct the appropriate test, and interpret the results

MATH R105-Using linear regression and ANOVA analysis for estimation and inference and interpret the associated statistics

MATH R105-Use appropriate statistical techniques to analyze and interpret applications based on data from various disciplines including, but not limited to business, social science, psychology, life science, health science, and education

MATH R105H-Distinguish among different scales of measurement and their implications

MATH R105H-Interpret data displayed in table(s) and graphically

MATH R105H-Apply concepts of sample space, probability, and counting techniques

MATH R105H-Calculate measure of central tendency and variation for a given data set

MATH R105H-Identify the standard measures of obtaining data and identify advantages and disadvantages of each (i.e. use appropriate language)

MATH R105H-Calculate the mean and variance of discrete distribution(s)

MATH R105H-Calculate probability using normal and t-distributions

MATH R105H-Distinguishing the difference between sample and population distributions and analyze the role played by the Central Limit Theorem

MATH R105H-Construct and interpret confidence intervals  
 MATH R105H-Determine and interpret levels of statistical significance (e.g. p-values)  
 MATH R105H-Interpret the output of a technology-based statistical analysis  
 MATH R105H-Identify the basic concepts of hypothesis tests involving Type I and II errors  
 MATH R105H-Determine the appropriate hypothesis test involving samples from one and two populations, conduct the appropriate test, and interpret the results  
 MATH R105H-Using linear regression and ANOVA analysis for estimation and inference and interpret the associated statistics  
 MATH R105H-Use appropriate statistical techniques to analyze and interpret applications based on data from various disciplines including, but not limited to business, social science, psychology, life science, health science, and education  
 PSY R103-Distinguish between the concepts of Population and Sample  
 PSY R103-Basic sampling techniques  
 PSY R103-Identify the basic methods of data collection and their appropriateness; identify advantages and disadvantages of each  
 PSY R103-Interpret data displayed graphically and in tables  
 PSY R103-Explain the Nature of a data set and scales of measurement and their implications; distributions of data sets [Normal and Binomial]  
 PSY R103-Calculate measures of central tendency (as appropriate to the nature of a sample) and variation for a data set; location of various central tendency in skewed and normal distribution  
 PSY R103-Apply concepts of sample space and probability  
 PSY R103-Calculate mean, variance and standard deviation of a sample and population [parameter and statistic]  
 PSY R103-Explain Central limit Theorem and compute Z-scores and use appropriate tables to interpret outcomes  
 PSY R103-Construct and interpret confidence intervals, and determine and interpret levels of statistical significance including p-values  
 PSY R103-Formulate hypothesis tests involving samples from one and two populations  
 PSY R103-Calculate probabilities using normal and t-distributions  
 PSY R103-Calculate difference of two sample means and its significance using t-distribution and Z-testing  
 PSY R103-Select the appropriate technique for testing a hypothesis and interpret the result  
 PSY R103-Apply the techniques of hypothesis testing and determine Type I and Type II errors including one-tail test and two-tail test and interpret confidence intervals (p-values)  
 PSY R103-Calculate Pearson-r (product-moment correlation coefficient between two variables) and Spearman-Rho [for rank order data], including regression analysis  
 PSY R103-Use linear regression and ANOVA analysis for estimation and inference, and interpret the associated statistics  
 PSY R103-State the concepts involving Analysis of Variance [ANOVA]  
 PSY R103-Apply the computational steps for obtaining value of F and obtain level of significance for F  
 PSY R103-Explain inferential testing between at least three (3) groups with one independent variable and at least one dependent variable  
 PSY R103-Compute Chi-square statistic and use Tests for Goodness of fit and independence  
 PSY R103-Use SPSS and EXCEL programs to analyze assigned data set, generate appropriate graph(s) and table(s) which will facilitate the process of interpretation. Data used for statistical analysis will include all social sciences, such as business, social sciences, psychology, life science, health science, and education

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### Entrance Skills

Fundamental understanding of psychological theories, major concepts, and psychology's subdisciplines is required prior to designing research studies in the discipline.

### Prerequisite Course Objectives

PSY R101-Demonstrate familiarity with the major concepts, theoretical perspectives, research methods, core empirical findings, and historic trends in psychology.  
 PSY R101-Recognize and understand the impact of diversity on psychological research, theory and application, including (but not limited to): age, race, ethnicity, culture, gender, socio-economic status, disability, and sexual orientation.  
 PSY R101-Understand and apply psychological principles to personal experience and social and organizational settings.  
 PSY R101-Demonstrate critical thinking skills and information competence as applied to psychological topics.  
 PSY R101-Explain (including advantages and disadvantages) and compare major theoretical perspectives of psychology (e.g., behavioral, biological, cognitive, evolutionary, humanistic, psychodynamic and socio-cultural)  
 PSY R101-Demonstrate knowledge and understanding of the following nine general domains: (1) biological bases of behavior and mental processes, (2) sensation and perception, (3) learning and memory (4) cognition, consciousness, (5) individual differences, psychometrics, personality, (6) social processes (including those related to socio-cultural and international dimensions), (7) developmental changes in behavior and mental processes that occur across the lifespan, (8) psychological disorders, and (9) emotion and motivation  
 PSY R101-Describe and demonstrate an understanding of applied areas of psychology (e.g., clinical, counseling, forensic, community, organizational, school, health)  
 PSY R101-Draw the distinction between scientific and non-scientific methods of understanding and analysis.

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**Requisite Justification****Requisite Type**

Prerequisite

**Requisite**

MATH R105

**Requisite Description**

Course not in a sequence

**Level of Scrutiny/Justification**

Required by 4 year institution

**Requisite Type**

Prerequisite

**Requisite**

MATH R105H

**Requisite Description**

Course not in a sequence

**Level of Scrutiny/Justification**

Required by 4 year institution

**Requisite Type**

Prerequisite

**Requisite**

PSY R101

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

**Student Learning Outcomes (CSLOs)****Upon satisfactory completion of the course, students will be able to:**

- |   |  |
|---|--|
| 1 | Discuss the Scientific Method by naming and explaining each step.                          |
| 2 | Define population (the entire group in question) and sample (a portion of the population). |
| 3 | Describe three types of experimental design and the advantages and disadvantages of each.  |
| 4 | Discuss the Hawthorne effect and its implications on the researcher.                       |
| 5 | Describe what the classic Prison study at Stanford University taught Zimbardo and others.  |

**Course Objectives****Upon satisfactory completion of the course, students will be able to:**

- |   |   |
|---|---|
| 1 | State key topics and subdisciplines studied in the field of Psychology  |
| 2 | Describe and apply the Scientific Method  |
| 3 | Identify the goal of research and summarize a collection of research findings   |
| 4 | Apply observational techniques and research methods related to research questions, hypotheses, and the interpretation of data   |
| 5 | Explain key concepts related to experimental methods such as correlation, causation, sampling procedures, and statistical tests |
| 6 | Develop and define hypotheses. Select appropriate research designs to test hypotheses   |

7	Identify types of errors and various forms of biases
8	Recognize levels of significance and the generalizability of study results
9	Examine ethical issues related to the treatment of humans and animals in the conduct of experimental research
10	Demonstrate proficiency in APA style by writing a research paper/literature using citing and other procedures using APA style

## Course Content

### Lecture/Course Content

1. Introduction
  - a. Scientific and nonscientific approaches to knowledge
  - b. Dependent and independent variables
  - c. Validity and reliability
  - d. Scientific method and its goals
  - e. Causal and correlational relationships
  - f. Samples and sampling methods
  - g. Theoretical and operational definitions
  - h. Selection of appropriate statistical tests (chi-square, correlation, t-tests, ANOVA)
  - i. Evaluating peer-reviewed literature
  - j. APA format
2. Ethical Issues in the Conduct of Psychological Research
  - a. APA ethical standards
  - b. Risk/benefit ratio of research
  - c. Use of deception in research
  - d. Human and animal subject use
3. Descriptive Methods – Observation and Survey Research
  - a. Observational techniques and rationale
  - b. Reactivity, demand characteristics, observer bias, expectancy effects, and other biases
  - c. Theories, research questions, hypotheses
  - d. Interpretation and limits of correlational data
  - e. Levels of measurement
4. Unobtrusive Measures of Behavior (physical trace methods, archival research methods, content analysis)
5. Experimental Methods
  - a. Independent Group Designs
  - b. Repeated Measures Designs
  - c. Reasons to use and limitations of experimental methods
  - d. Counterbalancing and practice effects
6. Main effects and interaction effects using both table and graph methods
7. Other Research Designs
  - a. Single-Case Research Design
  - b. Quasi-Experimental Designs
8. Program Evaluation
  - a. Characteristics of true experiments and quasi-experiments

### Laboratory or Activity Content

None

## Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Written expression

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Essay exams

Essays

Group projects

Objective exams

Projects  
 Problem-Solving Assignments  
 Quizzes  
 Reports/papers  
 Research papers

## Instructional Methodology

### Specify the methods of instruction that may be employed in this course

Computer-aided presentations  
 Class activities  
 Class discussions  
 Case studies  
 Distance Education  
 Group discussions  
 Instructor-guided interpretation and analysis  
 Instructor-guided use of technology  
 Internet research  
 Lecture  
 Small group activities

### Describe specific examples of the methods the instructor will use:

1. The instructor will instruct on how to do American Psychological Association citing and formatting procedures, give examples and answer questions.
2. The instructor will assign the student (in a group) to design a research study utilizing one of the methods learned in class.
3. The instructor will instruct the student to conduct the study they designed above.
4. The instructor will require the student to document that study in a manuscript utilizing American Psychological Association Manuscript guidelines

## Representative Course Assignments

### Writing Assignments

1. Taking observational notes in an archival or case study research or an actual experiment
2. Reporting/collating/summarizing notes into formal reports with the aid of tables, histograms and graphs making sure to interpret the data
3. Essays, e.g. on competing theories, interpretations, and research questions (within experimental psychology) on the appropriate use of sampling procedures and statistical tests
4. Designing research projects, for example: questionnaires, case studies, surveys, questionnaires sampling methods, levels of significance
5. Writing research papers that discuss and report on the entirety of a carefully designed experimental project (in APA format) including such issues as ethics of the study

### Critical Thinking Assignments

1. The student will document analysis of a famous research study, either historical or contemporary and describe the consequences of the design of the project and if it is truly objective and if the design influenced the outcomes.

### Reading Assignments

1. Reading chapters from the primary textbook, for example, on the topic of the "Scientific method and methods applied in the conduct of social scientific experimental research"
2. Reading other research studies in the field of psychology, such as those published through the American Psychological Association; for example, on studies which illustrate independent group designs versus repeated-measure designs
3. Reading/critiquing other student papers on the topics of: design; correct use of experimental methodologies; appropriate applications of experimental technique such as correlation coefficient.
4. Evaluating peer-reviewed literature

### Other assignments (if applicable)

1. Preparation for class presentation of research study on "Randomization and the use of controls in research design"

## Outside Assignments

### Representative Outside Assignments

1. The student will read 10 studies utilizing a chosen research method such as unobtrusive design and analyze the advantages of these studies in preventing the Hawthorne effect.
2. When documenting the above study which they design, the student will do a literature review focusing on the sample type and ability to be representative of the phenomena being studied.
3. The student will create a chart of all research methods studied in class such as correlation and experimental design and determine the best use of these methods.

## Articulation

### C-ID Descriptor Number

PSY 200

### Status

Approved

### Comparable Courses within the VCCCD

PSY M06 - Introduction to Behavioral Research Methods

PSY V07 - Introduction to Research Methods in Social and Behavioral Sciences

## District General Education

### A. Natural Sciences

### B. Social and Behavioral Sciences

#### B2. Social and Behavioral Sciences

Approved

### C. Humanities

### D. Language and Rationality

### E. Health and Physical Education/Kinesiology

### F. Ethnic Studies/Gender Studies

### Course is CSU transferable

Yes

### CSU Baccalaureate List effective term:

Fall 1995

## CSU GE-Breadth

### Area A: English Language Communication and Critical Thinking

### Area B: Scientific Inquiry and Quantitative Reasoning

### Area C: Arts and Humanities

### Area D: Social Sciences

#### D Social Sciences

Approved

**Area E: Lifelong Learning and Self-Development****Area F: Ethnic Studies****CSU Graduation Requirement in U.S. History, Constitution and American Ideals:****UC TCA**

UC TCA  
Approved

**IGETC****Area 1: English Communication****Area 2A: Mathematical Concepts & Quantitative Reasoning****Area 3: Arts and Humanities****Area 4: Social and Behavioral Sciences**

Area 4: Social and Behavioral Sciences  
Approved

**Area 5: Physical and Biological Sciences****Area 6: Languages Other than English (LOTE)****Textbooks and Lab Manuals****Resource Type**

Textbook

**Description**

Martin, DW (2008). *Doing Psychology Experiments (Thks is the most recent year available)*. Belmont, Ca. Wadsworth CENGAGE Learning.

**Resource Type**

Textbook

**Description**

Cozby, Paul C. Bates, Scott (2017). *Methods in Behavioral Research* (13th). New York McGraw Hill. 1259676986

**Resource Type**

Textbook

**Description**

Elmes, D.G., Kantowitz, B.H. Roediger, H.L. (2011). *Research Methods in Psychology*. Wadsworth Publishing .

**Resource Type**

Other Resource Type

**Description**

American Psychiatric Association, (latest edition) Publication Manual of the American Psychological Association, Washington DC, Author..

## Distance Education Addendum

### Definitions

#### Distance Education Modalities

Hybrid (51%–99% online)

Hybrid (1%–50% online)

100% online

### Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

### Regular Effective/Substantive Contact

#### Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Regular use of asynchronous discussion boards encourages various types of interaction and critical thinking skills among all course participants. Questions and topics posed will allow students to discuss, compare and contrast, identify, and analyze elements of the course outcomes. Students will be required to respond to one another with substantive comments with the intent of creating a dialog. Other discussion boards may be used for Q&A and general class discussion by students and instructor to facilitate student success and strengthen student learning outcomes.
E-mail	E-mail, class announcements and various learning management system tools such as “Message Students Who” and “Assignment Comments”, will be used to regularly communicate with all students on matters such as clarification of class content, reminders of upcoming assignments and/or course responsibilities, to provide prompt feedback to students on coursework to facilitate student learning outcomes, or to increase the role of an individual educator in the academic lives of a student. Students will be given multiple ways to email instructor through both the learning management system inbox and faculty provided email accounts.
Face to Face (by student request; cannot be required)	The instructor will hold weekly, scheduled office hours either in person or via-web conferencing, for students to be able to meet and discuss course materials or individual progress. Students can request additional in-person or web conferencing meetings with faculty member as needed. Faculty may encourage online students to form “study groups” in person or online.
Other DE (e.g., recorded lectures)	Faculty will use a variety of ADA compliant tools and media integrated within the learning management system to help students reach SLO competency. Tools may include: <ul style="list-style-type: none"> <li>• Recorded Lectures, Narrated Slides, Screencasts</li> <li>• Instructor created content</li> <li>• OC Online Library Resources</li> <li>• Canvas Peer Review Tool</li> <li>• Canvas Student Groups (Assignments, Discussions)</li> <li>• 3rd Party (Publisher) Tools (MyOpenMath)</li> <li>• Websites and Blogs o Multimedia (YouTube, Films on Demand, 3CMedia, Khan Academy, etc.)</li> </ul>

Synchronous Dialog (e.g., online chat)	Instructor will provide a set time each week where they will be available for synchronous chat and be available in the discussion board and can answer questions in live time.
Video Conferencing	Video tools such as ConferZoom can be used to provide live synchronous or asynchronous sessions with students. ADA compliance will be upheld with Closed Captioning during the session or of the recorded session. Recordings of all live sessions will be made available within the LMS. Video Conferences will be used to facilitate SLOs and student-to-student group meetings will also be encouraged.
Telephone	Students can request for instructor to call or vice versa in order to answer one-on-one questions about course material or student progress.

**Hybrid (51%–99% online) Modality:**

<b>Method of Instruction</b>	<b>Document typical activities or assignments for each method of instruction</b>
Asynchronous Dialog (e.g., discussion board)	Regular use of asynchronous discussion boards encourages various types of interaction and critical thinking skills among all course participants. Questions and topics posed will allow students to discuss, compare and contrast, identify, and analyze elements of the course outcomes. Students will be required to respond to one another with substantive comments with the intent of creating a dialog. Other discussion boards may be used for Q&A and general class discussion by students and instructor to facilitate student success and strengthen student learning outcomes.
E-mail	E-mail, class announcements and various learning management system tools such as “Message Students Who” and “Assignment Comments”, will be used to regularly communicate with all students on matters such as clarification of class content, reminders of upcoming assignments and/or course responsibilities, to provide prompt feedback to students on coursework to facilitate student learning outcomes, or to increase the role of an individual educator in the academic lives of a student. Students will be given multiple ways to email instructor through both the learning management system inbox and faculty provided email accounts.
Face to Face (by student request; cannot be required)	The instructor will hold weekly, scheduled office hours either in person or via-web conferencing, for students to be able to meet and discuss course materials or individual progress. Students can request additional in-person or web conferencing meetings with faculty member as needed. Faculty may encourage online students to form “study groups” in person or online.
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Telephone	Students can request for instructor to call or vice versa in order to answer one-on-one questions about course material or student progress.

**100% online Modality:**

<b>Method of Instruction</b>	<b>Document typical activities or assignments for each method of instruction</b>
Asynchronous Dialog (e.g., discussion board)	Regular use of asynchronous discussion boards encourages various types of interaction and critical thinking skills among all course participants. Questions and topics posed will allow students to discuss, compare and contrast, identify, and analyze elements of the course outcomes. Students will be required to respond to one another with substantive comments with the intent of creating a dialog. Other discussion boards may be used for Q&A and general class discussion by students and instructor to facilitate student success and strengthen student learning outcomes.
E-mail	E-mail, class announcements and various learning management system tools such as "Message Students Who" and "Assignment Comments", will be used to regularly communicate with all students on matters such as clarification of class content, reminders of upcoming assignments and/or course responsibilities, to provide prompt feedback to students on coursework to facilitate student learning outcomes, or to increase the role of an individual educator in the academic lives of a student. Students will be given multiple ways to email instructor through both the learning management system inbox and faculty provided email accounts.
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Telephone	Students can request for instructor to call or vice versa in order to answer one-on-one questions about course material or student progress.

**Examinations****Hybrid (1%–50% online) Modality**

Online  
On campus

**Hybrid (51%–99% online) Modality**

Online  
On campus

**Primary Minimum Qualification**

PSYCHOLOGY

**Review and Approval Dates****Department Chair**

09/04/2020

**Dean**

09/07/2020

**Technical Review**

10/28/2020

**Curriculum Committee**

10/28/2020

**DTRW-I**

MM/DD/YYYY

**Curriculum Committee**

12/09/2020

**Board**

MM/DD/YYYY

**CCCCO**

12/18/2020

**Control Number**

CCC000264682

**DOE/accreditation approval date**

MM/DD/YYYY