

## PSYC200 : Research Methods for Psychology

### General Information

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<b>Course Code (CB01) :</b>	PSYC200
<b>Course Title (CB02) :</b>	Research Methods for Psychology
<b>Department:</b>	PSYCH
<b>Proposal Start:</b>	Spring 2026
<b>TOP Code (CB03) :</b>	(2001.00) Psychology, General
<b>CIP Code:</b>	(42.0101) Psychology, General.
<b>SAM Code (CB09) :</b>	E - Non-Occupational
<b>Distance Education Approved:</b>	No
<b>Will this course be taught asynchronously?:</b>	No
<b>Course Control Number (CB00) :</b>	CCC000571879
<b>Curriculum Committee Approval Date:</b>	03/26/2025
<b>Board of Trustees Approval Date:</b>	06/17/2025
<b>Last Cyclical Review Date:</b>	05/08/2024
<b>Course Description and Course Note:</b>	PSYC 200 is a lecture and laboratory course focusing on the nature of theory and the principles of descriptive and inferential research. The course analyzes the scientific method, research design, ethical principles, internal and external validity, and scientific writing, and students apply these topics in a laboratory environment.
<b>Justification:</b>	Content Change
<b>Academic Career:</b>	<ul style="list-style-type: none"> <li>• Credit</li> </ul>
<b>Mode of Delivery:</b>	<ul style="list-style-type: none"> <li>• In-Person</li> <li>• Hybrid</li> </ul>
<b>Author:</b>	No value
<b>Course Family:</b>	No value

### Academic Senate Discipline

<b>Primary Discipline:</b>	<ul style="list-style-type: none"> <li>• Psychology</li> </ul>
<b>Alternate Discipline:</b>	No value
<b>Alternate Discipline:</b>	No value

### Course Development

**Basic Skill Status (CB08)**

Course is not a basic skills course.

Allow Students to Gain Credit by Exam/Challenge

**Course Special Class Status (CB13)**

Course is not a special class.

**Pre-Collegiate Level (CB21)**

Not applicable.

**Grading Basis**

- Grade with Pass / No-Pass Option

**Course Support Course Status (CB26)**

Course is not a support course

### General Education and C-ID

**General Education Status (CB25)**

Not Applicable

**Transferability**

Transferable to both UC and CSU

**Transferability Status**

Approved

**Cal-GETC**

Area 4: Social and Behavioral Sciences

**Area**

Social and Behavioral Sciences

**Status**

Approved

**Approval Date**

09/02/2025

**Comparable Course**

No Comparable Course defined.

**GCC General Education Requirements**

Area 4: Social and Behavioral Sciences

**Area**

Social and Behavioral Sciences

**Status**

Approved

**Approval Date**

09/02/2025

**Comparable Course**

No Comparable Course defined.

**C-ID**

PSY

**Area**

Psychology

**Status**

Approved

**Approval Date**

02/21/2017

**Comparable Course**

PSY 200 - Introduction to Research Methods in Psychology

**C-ID**

PSY

**Area**

Psychology

**Status**

Approved

**Approval Date**

02/18/2025

**Comparable Course**

PSY 205 B - Introduction to Research Methods in Psychology (With Lab)

### Units and Hours

**Summary**

**Minimum Credit Units (CB07)** 4

**Maximum Credit Units (CB06)** 4

**Total Course In-Class (Contact Hours)** 108

**Total Course Out-of-Class Hours** 108

**Total Student Learning Hours** 216

**Credit / Non-Credit Options**

**Course Type (CB04)**

Credit - Degree Applicable

**Noncredit Course Category (CB22)**

Credit Course.

**Noncredit Special Characteristics**

No Value

**Course Classification Code (CB11)**

Credit Course.

Variable Credit Course

**Funding Agency Category (CB23)**

Not Applicable.

Cooperative Work Experience Education Status (CB10)

**Weekly Student Hours**

	In Class	Out of Class
Lecture Hours	3	6
Laboratory Hours	3	0
Studio Hours	0	0

**Course Student Hours**

<b>Course Duration (Weeks)</b>	18
<b>Hours per unit divisor</b>	54
<b>Course In-Class (Contact) Hours</b>	
Lecture	54
Laboratory	54
Studio	0
<b>Total</b>	108
<b>Course Out-of-Class Hours</b>	
Lecture	108
Laboratory	0
Studio	0
<b>Total</b>	108

**Time Commitment Notes for Students**

No value

**Units and Hours - Weekly Specialty Hours**

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

## Prerequisites, Corequisites, Recommended Corequisites, and Recommended Preparation

### Prerequisite

PSYCC1000 - Introduction to Psychology

#### Objectives

- Demonstrate familiarity with the major concepts, theoretical perspectives, research methods, core empirical findings, and historic trends in psychology.
- Critically analyze major theoretical perspectives of psychology (e.g. behavioral, biological, cognitive, evolutionary, humanistic, psychodynamic, and socio-cultural).
- Describe biological bases of behavioral and mental processes, sensation, perception, learning, memory, cognition, consciousness, individual differences, personality, social psychology.
- Describe developmental changes across the lifespan, psychological disorders, emotion, and motivation.
- Discuss applied areas of psychology (e.g. clinical, counseling, forensic, community, organizational, school, and health).
- Recognize and the impact of diversity on psychological research, theory, and application.
- Apply psychological principles to personal experience as well as social and organizational settings.

### AND

### Prerequisite

ECON127 - Introductory Statistics for Economics and Business

#### Objectives

- Describe and analyze realistic data sets both large and small from disciplines including economics, business, psychology, and other social sciences using graphs and statistics.
- Analyze real world results from economics, business, and related fields, and interpret the output of a technology-based statistical analysis and identify flaws in statistical reasoning.
- Identify the standard methods of obtaining economics and business data and identify advantages and disadvantages of each.
- Calculate probability using the normal distribution, the t distribution and the basic laws of probability.
- Describe sampling distributions, distinguish them from population distributions and analyze the role played by the Central Limit Theorem.
- Compute confidence intervals of population means, proportions and standard deviations from economics and business data.
- Identify the basic concept of hypothesis testing including Type I and II errors, finding and interpreting levels of significance including p-values, selecting the appropriate techniques for testing a hypothesis from one and two populations and interpreting the result from economics and business data.
- Perform chi-square tests using chi-square tables and statistical software or calculator.
- Use linear regression and ANOVA analysis for estimation and inference, and interpret the economics and business statistics.
- Calculate and present results using sound statistical reasoning, accurate statistical terminology and software such as Excel, R, or Stata.

### OR

### Prerequisite

STATC1000 - Introduction to Statistics

#### Objectives

- Assess how data were collected and recognize how data collection affects what conclusions can be drawn from the data.
- Identify appropriate graphs and summary statistics for variables and relationships between them and correctly interpret information from graphs and summary statistics.
- Describe and apply probability concepts and distributions.
- Demonstrate an understanding of, and ability to use, basic ideas of statistical processes, including hypothesis tests and confidence interval estimation.
- Identify appropriate statistical techniques and use technology-based statistical analysis to describe, interpret, and communicate results.
- Evaluate ethical issues in statistical practice.
- Calculate measures of central tendency and variation for a given data set.
- Identify the standard methods of obtaining data and identify advantages and disadvantages of each.
- Calculate the mean and variance of a discrete distribution. advantages and disadvantages of each
- Calculate probabilities using normal and t-distributions.
- Distinguish the difference between sample and population distributions and analyze the role played by the Central Limit Theorem.
- Construct and interpret confidence intervals.
- Determine and interpret levels of statistical significance including p-values.
- Identify the basic concept of hypothesis testing including Type I and II errors.

- Formulate hypothesis tests involving samples from one and two populations.
- Select the appropriate technique for testing a hypothesis and interpret the result.
- Use regression lines and ANOVA for estimation and inference, and interpret the associated statistics.
- Use appropriate statistical techniques to analyze and interpret applications based on data from at least four of the following disciplines: business, economics, social science, psychology, political science, administration of justice, life science, physical science, health science, information technology, and education.

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OR

### Prerequisite

#### STATC1000E - Introduction to Statistics

##### Objectives

- Assess how data were collected and recognize how data collection affects what conclusions can be drawn from the data.
- Identify appropriate graphs and summary statistics for variables and relationships between them and correctly interpret information from graphs and summary statistics.
- Describe and apply probability concepts and distributions.
- Demonstrate an understanding of, and ability to use, basic ideas of statistical processes, including hypothesis tests and confidence interval estimation.
- Identify appropriate statistical techniques and use technology-based statistical analysis to describe, interpret, and communicate results.
- Evaluate ethical issues in statistical practice.
- Calculate measures of central tendency and variation for a given data set.
- Identify the standard methods of obtaining data and identify advantages and disadvantages of each.
- Calculate the mean and variance of a discrete distribution.
- Calculate probabilities using normal and t-distributions.
- Distinguish the difference between sample and population distributions and analyze the role played by the Central Limit Theorem.
- Construct and interpret confidence intervals.
- Determine and interpret levels of statistical significance including p-values.
- Identify the basic concept of hypothesis testing including Type I and II errors.
- Formulate hypothesis tests involving samples from one and two populations.
- Select the appropriate technique for testing a hypothesis and interpret the result.
- Use regression lines and ANOVA for estimation and inference, and interpret the associated statistics.
- Use appropriate statistical techniques to analyze and interpret applications based on data from at least four of the following disciplines: business, economics, social science, psychology, political science, administration of justice, life science, physical science, health science, information technology, and education.

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OR

### Prerequisite

#### STATC1000H - Introduction to Statistics - Honors

##### Objectives

- Assess how data were collected and recognize how data collection affects what conclusions can be drawn from the data.
- Identify appropriate graphs and summary statistics for variables and relationships between them and correctly interpret information from graphs and summary statistics.
- Describe and apply probability concepts and distributions.
- Demonstrate an understanding of, and ability to use, basic ideas of statistical processes, including hypothesis tests and confidence interval estimation.
- Identify appropriate statistical techniques and use technology-based statistical analysis to describe, interpret, and communicate results.
- Evaluate ethical issues in statistical practice.
- Calculate measures of central tendency and variation for a given data set.
- Identify the standard methods of obtaining data and identify advantages and disadvantages of each.
- Calculate the mean and variance of a discrete distribution.
- Calculate probabilities using normal and t-distributions.
- Distinguish the difference between sample and population distributions and analyze the role played by the Central Limit Theorem.
- Construct and interpret confidence intervals.
- Determine and interpret levels of statistical significance including p-values.
- Identify the basic concept of hypothesis testing including Type I and II errors.
- Formulate hypothesis tests involving samples from one and two populations.
- Select the appropriate technique for testing a hypothesis and interpret the result.
- Use regression lines and ANOVA for estimation and inference, and interpret the associated statistics.
- Use appropriate statistical techniques to analyze and interpret applications based on data from at least four of the following disciplines: business, economics, social science, psychology, political science, administration of justice, life science, physical science, health science, information technology, and education.

information technology, and education.

- Use linear, nonlinear and multiple regression (honors enhancement) and one- and two-way (honors enhancement) ANOVA analysis for estimation and inference, and interpret the statistics.

### Entry Standards

Entry Standards	Description
No value	No value

### Course Limitations

Cross Listed or Equivalent Course	Description
No value	No value

### Requisite Validation

Upload Statistical Validation and/or other documents (if necessary)
No Value

### Specifications

Methods of Instruction	
Methods of Instruction	Lecture
Methods of Instruction	Laboratory
Methods of Instruction	Discussion
Methods of Instruction	Demonstrations
Methods of Instruction	Guest Speakers

<b>Methods of Instruction</b>	Presentations
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<b>Methods of Instruction</b>	Multimedia
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<b>Out of Class Assignments</b>	<ul style="list-style-type: none"> <li>• Research paper (e.g., evaluate existing scientific findings regarding the impact of hypermedia on attention and propose an experiment related to this topic).</li> <li>• Research (e.g., gather, analyze, and interpret experimental data on the impact of hypermedia on attention and present in poster format).</li> </ul>
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<b>Methods of Evaluation</b>	<b>Description of Activity/Interaction</b>
In-Class Writing Assignment	In-class writing assignment (e.g., a research paper in APA format that includes a literature review, research design, data reporting, and interpretation)
Exam/Quiz/Test	Two in-class tests on lecture material
Exam/Quiz/Test	Final examination (e.g., multiple choice, short answer written responses, and matching)

<b>Textbook Rationale</b>	No Value
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<b>Textbooks</b>				
<b>Author</b>	<b>Title</b>	<b>Publisher</b>	<b>Date</b>	<b>ISBN</b>
Beth Morling	Research Methods in Psychology: Evaluating a World of Information 4th Edition	Norton	12/15/2021	9780393893700

<b>Other Instructional Materials (i.e. OER, handouts)</b>	No Value
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<b>Learning Outcomes</b>
<b>Course Objectives</b>
Describe and apply each step of the scientific method.

Compare and contrast each research method used in the Social Sciences.

Design a study using experimental research.

Acquire skills necessary to develop a literature review using multiple search strategies.

Evaluate critically the internal and external validity of research.

Conduct the statistical analysis of data.

Apply ethical standards as they pertain to experimental research.

Analyze the relationship between theory and research.

**SLOs**

Use scientific reasoning to interpret social and behavioral phenomena.

Expected Outcome Performance: 70.0

Apply problem solving in the context of research.

Expected Outcome Performance: 70.0

Critique experimental designs within the existing literature.

Expected Outcome Performance: 70.0

**Additional SLO Information**

**Does this proposal include revisions that might improve student attainment of course learning outcomes?**

No

**Is this proposal submitted in response to learning outcomes assessment data?**

No

**If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes.**

No Value

**SLO Evidence**

No Value

**Course Content**

Lecture Content

**Scientific Understanding of Human Behavior (8 hours)**

- Brief history of science and the scientific method
- Goals of science
- Understanding a research article
- Basic and applied research

**Ethics (3 hours)**

- Ethical standards of the American Psychological Association
- Review of the antecedents of contemporary standards
- Use of human and animal subjects
- Cost and benefit analysis
- Role of the Institutional Review Board

**Research Design (16 hours)**

- Research Concepts
- Theories, hypotheses, and variables
- Theoretical and operational definitions
- Types of variables (e.g., independent, dependent, and confounding)
- Samples and group assignment
- Causal and correlational relationships
- Descriptive Methods
- Types of descriptive studies (e.g., survey, observation, case study, and correlation)
- Observational techniques
- Reactivity, demand characteristics, observer bias, expectancy effects, and other biases
- Strengths and weaknesses of descriptive methods
- Experimental Methods
- Independent Group Designs
- Repeated Measures Designs
- Strengths and weaknesses of experimental methods
- Counterbalancing and practice effects
- Main effects and interaction effects
- Unobtrusive Measures of Behavior (physical trace methods, archival research methods, and content analysis)
- Other Research Designs Single-Case Research Design Quasi-Experimental Design

**Measurement (6 hours)**

- Psychometric concepts: reliability, validity, and standardization
- Reactivity of measures
- Qualitative versus quantitative data

**Research Development (6 hours)**

- The research proposal
- Pilot study

**Beginning Research (9 hours)**

- Literature review strategies, tools, and resources
- Peer review of research questions, theories, and hypotheses

**Presenting Findings (6 hours)**

- Scientific writing
- American Psychological Association (APA) style
- Presentation strategies

**Total Hours: 54****Laboratory/Studio Content****Research Development (24 hours)**

- The research proposal
- Pilot study

**Conducting Research (15 hours)**

- Mock Institutional Review Board presentation
- Data collection

**Data Analysis (15 hours)**

- Descriptive versus inferential statistics
- Null and research hypotheses

- Distributions
- Graphing data effectively
- Statistical tests (e.g., correlation, chi-square, t-tests, and ANOVA)
- Statistical significance Type I and Type II errors

**Total Hours: 54**

**Additional Information****Repeatability**

Not Repeatable

**Justification (if repeatable was chosen above)**

No Value

**Is it possible this course will have a material fee?**

No

**I have contacted my library liaison (<https://campusguides.glendale.edu/faculty/liasons>):**

No

**What term(s) will this course be offered?**

Fall/Spring

**Will any additional resources be needed for this course? (Click all that apply)**

No Value

**If additional resources are needed, add a brief description and cost in the box provided.**

No Value