



蘇州大學  
Soochow University

# PSY 273 Research Methods and Statistics in

## Psychology I

Fall 2023

**Course Credits:** 4

**Contact Hours:** 56 hours

**Instructor:** TBA

**Email:**TBA

### **COURSE OBJECTIVES**

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Psychology is a research-based science, thus yielding out great demand for research methodologies and statistical techniques to interpret data and provide evidence for both theories and observed phenomenon. This course is designed to instruct students to the in-depth understanding of scientific research methods and statistical analysis. Topics involved in this course will cover variables, samples, descriptive, experimental, quasi-experimental and correlational methodologies, validity, qualitative approaches, ethical issues, etc.

Upon Completion of this Course, students will be able to:

1. Describe the basic concepts of research methods and statistics in psychology
2. Gain insight into the application of scientific methods and statistics to the study of psychological phenomena
3. Analyze psychological data with statistical techniques
4. Evaluate ethical principles and standards within the context of research in psychology
5. Report the observed psychological issues and the collected data with written paper

### **PREREQUISITES**

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PSY 100 Introduction to Psychology



## GRADING

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Grades will be determined by accumulating points, with 100 points being the maximum, as follows:

ITEM	POINTS
4 Labs	40 Points
Final Paper	10 Points
Midterm	20 Points
Final Exam	30 Points
Total	100 Points

Late submissions will be graded at the end of the course. Grades will be assigned according to the following rule:

$$A \geq 90 > B \geq 80 > C \geq 70 > D \geq 60 > F.$$

We reserve the right to make adjustments to the overall grading policy.

## COURSE MATERIALS

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### Required Texts:

Hugh Coolican, *Research Methods and Statistics in Psychology*, 6th Edition, Psychology Press.

### Recommended (Optional) Texts or Other Materials:

None

## COURSE TOPICS

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MODULE	TASKS
Module 1	<p><b>Topics:</b>            Topic 1: Why Psychology And Science?            Topic 2: Scientific Method            Topic 3: Variables &amp; Samples            Topic 4: Qualitative Critique</p> <p><b>Assessments:</b>            Lab#1: Literature Searches</p>



Module 2	<b>Topics:</b> Topic 5: Experiments & Experimental Designs Topic 6: Validity in Experiments & Types of Validity Topic 7: Quasi-experiments and Non-experiments Topic 8: Control and Validity in the Laboratory and in the Field <b>Assessments:</b> Lab#2: SPSS
Module 3	<b>Topics:</b> Topic 9: Observational Methods Topic 10: Observational Methods (Cont.) Topic 11: Interview Methods Topic 12: Psychological Tests <b>Assessments:</b> Lab#3: Data Files and Proposal Topics Midterm
Module 4	<b>Topics:</b> Topic 13: Measurement Scales Topic 14: Comparison Studies Topic 15: Cross-sectional Studies Topic 16: Longitudinal Studies <b>Assessments:</b> Lab#4: Data Collection
Module 5	<b>Topics:</b> Topic 17: Cross- cultural Studies Topic 18: Qualitative Approaches in Psychology Topic 19: Qualitative Approaches in Psychology (Cont.) Topic 20: Ethical Issues in Psychological Research <b>Assessments:</b> Final Paper Final Exam

## ATTENDANCE

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1) Class attendance is required. Missing classes without permission will lead to decrease in overall grade.

Missing less than two classes: no penalty.

Missing more than two classes: 7% will be taken off from the overall grade.

If the instructor reports a student's frequent missing of class to the Soochow University Academic Administration Office, the student might get a written warning and might be prohibited from attending final exam.



2) Participants in this course are expected to arrive in class promptly and adequately prepared. The primary objective of this course is to critically engage with the readings and the subject matter. Therefore, course participants are expected to have completed the reading prior to class and prepare thoughtful reflections/commentaries to share with fellow colleagues.

### **LEARNING REQUIREMENTS**

- 1) Late assignments are not acceptable and are subjected to grade deductions.
- 2) Assignments submitted in the wrong format will be counted as not submitted.
- 3) Failure to submit or fulfill any required course component results in failure of the class.
- 4) Make-up for midterm and final exams only with valid excuses, as defined by the University.
- 5) In order to earn a Certificate of Completion, participants must thoughtfully complete all assignments by stated deadlines and earn an average quiz score of 50% or greater.

### **TECHNOLOGY POLICY**

The use of electronic devices in class is distracting, both for the user and for the rest of the class. Only non-programmable calculators can be used in the tests and exam. Any attempts to use cell phones and other electronic communication devices will be seemed as cheating. Laptops are discouraged, unless you use them for activities DIRECTLY related to the course (eg., note taking, reading course documents).

### **ACADEMIC INTEGRITY POLICY**

Soochow University highly values the academic integrity and aims to promote the academic fairness, honesty and responsibility. Any academic dishonesty behaviors and any attempts to cheats and plagiarism will be reported to the university administration office. A written warning and the relevant penalties will be imposed. The record might be shown on the official university transcript.

### **DISABILITY ACCOMMODATION**



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Soochow University is committed to maintaining a barrier-free environment so that students with disabilities can fully access programs, courses, services, and activities at Soochow University. Students with disabilities who require accommodations for access to and/or participation in this course are welcome.

Note:

Please contact the University Administrative Office immediately if you have a learning disability, a medical issue, or any other type of problem that prevents professors from seeing you have learned the course material.