



蘇州大學
Soochow University

PSY 367 Sensation and Perception

Fall 2023

Course Credits: 4

Contact Hours: 56 hours

Instructor: TBA

Email: TBA

COURSE OBJECTIVES

This course is an engaging and comprehensive course that delves into the fascinating world of how humans perceive and interpret the sensory information that surrounds them. Topics include mechanisms of perception, detection, discrimination, and pattern recognition. Through a blend of theoretical concepts, experimental studies, and real-world applications, students will gain a deep understanding of how the brain processes sensory information and constructs our perception of the world around us.

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

1. Define and differentiate between sensation and perception
2. Study the structure and function of sensory receptors and neural pathways.
3. Explore the various sensory modalities, including vision, audition, olfaction, gustation, and somatosensation, with an emphasis on how each modality contributes to our overall perception of the world.
4. Explore emerging topics and research in the field of sensation and perception, including the application of neuroimaging techniques and advancements in virtual reality.

PREREQUISITES

PSY 235 Basic Psychological Research and Statistical Analysis

GRADING

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



ITEM	POINTS
Quizzes 2	20 Points
Assignments 2	20 Points
Midterm 1	15 Points
Midterm 2	15 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

Required Texts:

Jeremy Wolfe; Keith Kluender; Dennis Levi; Linda Bartoshuk; Rachel Herz; Roberta Klatzky; Daniel Mer, *Sensation and Perception*, 6th Edition, Sinauer Associates, 2023.

Recommended (Optional) Texts or Other Materials:

None

COURSE TOPICS

MODULE	TASKS
Module 1	Topics: Topic 1: Psychophysical Methods Topic 2: Scaling Methods Topic 3: Signal Detection Theory Topic 4: Sensory Neuroscience and the Biology of Perception Assessments: Quiz#1



Module 2	Topics: Topic 5: Basic Principles of Color Perception Topic 6: Color Appearance Topic 7: Selection in Space Topic 8: Tactile Sensitivity and Acuity Assessments: Quiz#2 Assignment#1
Module 3	Topics: Topic 9: Theories of Olfactory Perception Topic 10: The Importance of Patterns Topic 11: Anatomy and Physiology of the Gustatory System Topic 12: Basic Structure of the Mammalian Auditory System Assessments: Midterm#1
Module 4	Topics: Topic 13: Spatial Hearing and Blindness Topic 14: Touch Receptors and Neural Fibers Topic 15: From Chemicals to Smells Topic 16: Taste versus Flavor Assessments: Midterm#2 Assignment#2
Module 5	Topics: Topic 17: Olfactory Psychophysics, Identification, and Adaptation Topic 18: Discrimination and Recognition Topic 19: Identification: Olfaction and Language Topic 20: Cognitive Habituation and Odor Consciousness Assessments: Final Exam

ATTENDANCE

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.