



蘇州大學
Soochow University

ART 205 Visual Perception

Summer 2024

Course Credits: 4

Contact Hours: 56 hours

Instructor: TBA

Email:TBA

COURSE OBJECTIVES

This course explores the intricate workings of the human visual system, exploring the anatomy, physiology, and psychology behind vision and perception. Students will gain a comprehensive understanding of how the eye and brain function together to perceive the world around us, as well as the principles underlying imaging systems.

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

1. Understand the anatomical structure and physiological processes of the human eye and brain;
2. Explain the principles of visual perception and color vision;
3. Analyze depth perception in both two-dimensional and three-dimensional contexts;
4. Demonstrate knowledge of image processing techniques and their applications;
5. Apply concepts of brightness, contrast, and visual processes to interpret images effectively.

PREREQUISITES

None

GRADING

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



ITEM	POINTS
4 Assignments	20 Points
2 Quizzes	20 Points
Midterm Exam	25 Points
Final Exam	35 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:

1. *Vision Science: Photons to Phenomenology*, Stephen E. Palmer, MIT Press, Cambridge, MA. 1999.
2. *Sensation and Perception* (7th edition), E. B. Goldstein, Brooks/Cole, 2007.

Recommended (Optional) Texts or Other Materials:

None

COURSE TOPICS

MODULE	TASKS
Module 1	Topics: Topic 1: Introduction to Perception Topic 2: Introduction to the Physiology of Perception Topic 3: Brain and Neurophysiology Topic 4: Introduction to Vision Assessments: Assignment #1



Module 2	Topics: Topic 5: Cortical Visual Pathways and Functional Specialization Topic 6: Perceiving Objects and Scenes Topic 7: Attention and Visual Awareness Topic 8: Visual Anatomy and Physiology Assessments: Assignment #2 Quiz #1
Module 3	Topics: Topic 9: Color Vision Topic 10: Spatial vision Topic 11: Depth Perception Topic 12: Motion Perception Assessments: Assignment #3 Midterm Exam
Module 4	Topics: Topic 13: Sound, the Auditory System, and Pitch Perception Topic 14: Sound Localization and the Auditory Scene Topic 15: Speech Perception Topic 16: Cutaneous Senses Assessments: Assignment #4 Quiz #2
Module 5	Topics: Topic 17: Image Formation and Optics Topic 18: Image Sensing and Acquisition Topic 19: The Chemical Senses Topic 20: Perceptual Development 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.



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DISABILITY ACCOMMODATION

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.