**Instructor**
Martin Lampert, Ph.D.

**Instructor's Office Hours**
Mondays, 10:30–11:30 a.m. (in-office)
and by appointment

**Instructor's Contact Information**
*Office*: DMH 352, Desk 3
*E-mail:* martin.lampert@sjsu.edu
*Phone: TBA*

**Hybrid Class Meetings**
Mondays, 9:00-010:15 am (in-person, DMH 356)
Wednesdays, 9:00-10:15 am (online, via Zoom)
*Zoom Link:* https://sjsu.zoom.us/j/89110950360

**Required Text and Software**

Goldstein, E. B. (2019). *Cognitive psychology.* (5th Ed.). Cengage Learning.

Francis, G., & Neath, I. (2015). *CogLab 5.0.* Cengage Learning.

*Note:* The textbook can be purchased electronically from Cengage with Mindtap (which includes CogLab). Purchase of Cengage Unlimited with MindTap is recommended for this course, which provides access to Cengage's entire library of books and learning platforms.

**Course Objectives and Outcomes**

This course surveys the broad area of cognitive psychology with the aid of laboratory exercises. Throughout the course, we will investigate how the human mind works, focusing on the nature of cognitive structures and mental processes. By the end of the course, students should be able to:

- identify and describe the major theories within cognitive psychology
- identify, describe, and explain the major research findings within cognitive psychology
- apply theories of cognition to analyze and explain cognitive abilities and performance
- compose short research reports following the structure of a psychological article

**Course Structure**

Class meetings for this course follow a hybrid model with an in-person Monday lecture followed by a Wednesday online lecture/laboratory. Lectures will focus on the theory and research within a specific area of cognitive psychology. Topics will include perception, attention, memory, language processing, problem solving, and decision making.

Laboratories will be devoted to experiments related to the weekly lecture. During each laboratory, students will conduct or participate in a computerized psychological experiment. We will discuss the purpose of the experiment, collect data from the class, and go over the write-up of an assigned laboratory report. Lab reports will be due on the Wednesday following their assignment unless otherwise indicated. To participate in the labs, students must purchase or have an activation code for *CogLab* which they can use to access *CogLab* on the PSYC 135 Canvas site.

Special Note on Credit Hours: Federal guidelines require that for each unit of course credit, students must have each week one hour of classroom instruction, or its equivalent, and a minimum of two hours of out-of-class work. As a three-unit course, PSYC 135 requires that students devote an average of six hours per week to their assigned readings, projects, and review of the course material.

**Grading**

For this course, final grades will be based on a midterm and final examination plus six laboratory reports and classroom participation. The exams will be objective tests (multiple choice and short answer questions), each worth 35 points and designed to assess each student's breadth of knowledge on the topics covered in class. Students will also be expected to participate in 13 laboratories and to turn in six lab reports, each worth 20 points. Three lab reports must be completed from the labs between August 30 to October 11 and another three reports must be completed from the labs between October 11 and November 29. Students may complete more than six reports. In this case, only the best six reports will be included for final grading. Reports are due one week after their assignment, and late reports will not be accepted. Final grades will be assigned on an absolute scale (i.e., 90% = A; 80% = B; 70% = C) with points assigned as follows:

| | |
|---|---|
| Final and Midterm Exam | 70 points (35 points each) |
| Class/Lab Participation | 20 points |
| Reports for Three Labs between August 30 to October 11 | 60 points (20 points each) |
| Reports for Three Labs between Oct. 11 to November 29 | 60 points (20 points each) |

**Academic Integrity**

All students are expected to be familiar with SJSU's policies on academic integrity as outlined in the University catalog. As cheating undermines the learning process, the instructor reserves the right to assign a final grade of *F* to any student who represents the work or ideas of another person as his/her own.

**Learning Disabilities Support**

Reasonable and appropriate accommodations for individuals with qualifying disabilities are extended through SJSU's Accessible Education Center. Students with disabilities are encouraged to contact the AEC office by phone at 408-924-6000, by e-mail at aec-info@sjsu.edu, or online at https://www.sjsu.edu/aec/ to arrange for class accommodations. The instructor will make provisions for students in line with the AEC's instructions.

# PSYCHOLOGY 135 (Section 2)—COGNITION
## FALL 2023 CALENDAR

| Date | Lecture/Labs | Textbook Readings |
|---|---|---|
| August 21<br>August 23 | **Lec:** Overview of the Course<br>& Cognitive Psychology | *Goldstein:* Chapter 1 |
| August 28<br>August 30 | **Lec***:* Cognitive Neuroscience<br>**Lab:** Facial Recognition | *Goldstein: Chapter 2*<br>*Lab:* Facial Recognition |
| September 4<br>September 6 | ***Labor Day Holiday (Sept. 4)***<br>**Lec/Lab:** Hemispheric Asymmetry | *Goldstein: Chapter 2*<br>*CogLab:* Brain Asymmetry |
| September 11<br>September 13 | **Lec:** Perception<br>**Lab:** Feature Detection | *Goldstein:* Chapter 3<br>*CogLab:* Visual Search |
| September 18<br>September 20 | **Lec:** Attention<br>**Lab:** Attentional Interference | *Goldstein:* Chapter 4<br>*CogLab:* Stroop Effect |
| September 25<br>September 27 | **Lec:** Short-Term & Working Memory<br>**Lab:** Nature of Working Memory | *Goldstein:* Chapter 5<br>*CogLab:* Sternberg Search |
| October 2<br>October 4 | **Lec:** Long-Term Memory<br>**Lab:** Implicit vs. Explicit Memory | *Goldstein:* Chapters 6<br>*Lab:* Implicit Memory |
| October 9<br>October 11 | **Lec:** Memory Processes<br>**Lab:** Retrieval Processes | *Sternberg:* Chapter 7<br>*CogLab:* Levels of Processing |
| October 16<br>October 18 | ***Midterm***<br>**Lec/Lab:** Remembering and Forgetting | Goldstein, Chapter 8<br>*CogLab:* False Memory |
| October 23<br>October 25 | **Lec:** Conceptual Knowledge<br>**Lab:** Prototypes & Categories | *Goldstein*: Chapter 9<br>*CogLab:* Categorical Perception |
| October 30<br>November 1 | **Lec:** Visual Imagery<br>**Lab:** Mental Rotation | *Goldstein*: Chapter 10<br>*CogLab:* Mental Rotation |
| November 6<br>November 8 | **Lec:** Language<br>**Lab:** Semantic & Propositional Networks | *Goldstein*: Chapter 11<br>*CogLab:* Lexical Decision |
| November 13<br>November 15 | **Lec:** Deductive & Inductive Reasoning<br>**Lab:** Decision Making | *Goldstein:* Chapters 13<br>*CogLab:* Decision Making |
| November 20<br>November 22 | **Lec:** Reasoning/Problem Solving<br>**Thanksgiving Holiday** | *Goldstein:* Chapter 12 |
| November 27<br>November 29 | **Lec:** Problem-Solving (continued)<br>**Lab:** Well-Defined Problems | *Goldstein:* Chapter 12<br>*Lab:* Solving Anagrams |
| December 4<br>December 6 | **Lec:** Creativity<br>**Lab**: Ill-Defined Problems | *Goldstein:* Chapter 12<br>*Lab*: Ill-Defined Problems |
| December 13 | ***Final Exam*** (7:15-9:30 am) | |

**Note 1:** This calendar is flexible, and dates, topics, and labs are subject to modification.

**Note 2:** Assigned readings are to be completed prior to the class meeting.

**Note 3:** Laboratory reports are due on Wednesday following their assignment.

**Note 4:** The course midterm will be on October 16 and will cover lectures and readings from August 28 through October 11. The final is scheduled for Wednesday, December 13, from 7:15 to 9:30 a.m. The final will cover the material from October 18 through December 6. Students who miss an examination may make it up within two days of the original test, provided that they can document that they could not attend class due to circumstances outside of their control. No make-up exams will be given for undocumented reasons or once the two-day grace period has passed.