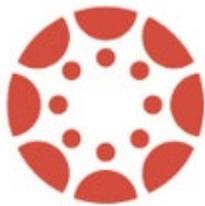


**San José State University
Psychology Department
23183, Psyc 135, Cognition, Sec 01, SPRING 2024**

Instructor: Steven Macramalla
Office Location: DMH 230 / ZOOM
Telephone: 831-234-8451
Email: steven.macramalla@sjsu.edu
Office Hours: TR 12:00PM-1:00PM

Class Days/Time: TR 9:00AM - 10:15AM
Classroom: Dudley Moorhead Hall 355
Prerequisites: Psych 001

WELCOME TO COGNITIVE PSYCHOLOGY IN-PERSON
with “ZOOM SUPPORT”



CANVAS Lecture Slides
Announcements
Assignment Submissions
Exams



ZOOM You Must Request
Permission From Me To Attend
One Or All Lectures Online.
And You Must Have A Valid Reason.
**SJSU Code of Conduct Applies – Be
Professional
NO Hate Speech!**

Course Description

We are examining how the brain processes information and generates the illusion of your reality. This class will reinforce basic scientific concepts as we delve into new territory of vision, language, memory, attention and other domains of cognitive psychology.

Course Goals and Student Learning Objectives

The objective is to distinguish fundamental principles of cognitive function in vision, attention, memory and language.

Upon successful completion of this course, students will be able to:

Navigate and discriminate the scientific literature in cognitive psychology in areas relevant to their concerns.

Required Texts/Readings

Juola,& Koshino *Cognitive Psychology*

V.S. Ramachandran *Phantoms in the Brain*

Readings:

James Gleick,

The Information

Matthew Cobb,

Why Your Brain is Not a Computer

Unknown

Readings on Attention

Pashler

Doing Two Things at Once

Lee

What Whorf Really Said

Boroditsky

The Role of the Body and Mind in Abstract Thought

Boroditsky & Lieberman

Does Language Shape Your Thoughts

IN-PERSON+

You Are Expected To Attend Class In-Person

This is an in-person class with supplementary asynchronous resources: you are expected to attend class unless prohibited by circumstances (family, work

etc.) during this pandemic, in which case, the class is designed so you can complete the requirements on your own time.

Please understand, it's a safety net. To get the most out of the class, you want to attend lecture and discussions.

Classroom Protocol

Students are expected to display professionalism and respect for others: Arrive on time. Participate in class. Engage in civil dialogue. Pay attention to the lecture. Do not cheat.

QUIZZES

Time-pressured Multiple-Choice approx. 50 Questions. Tests will be “online in-class.” You will come to the regular class time, and take the test on your laptop.

Requests for exam date changes will be considered for extenuating circumstances with a doctor's note, if you have more than two exams on the same day, you are a parent or have suffered unforeseen hardships due to the pandemic.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester's [Catalog Policies](#) section at

<http://info.sjsu.edu/static/catalog/policies.html>. Add/drop deadlines can be found on the [current academic calendar](#) web page located at http://www.sjsu.edu/academic_programs/calendars/academic_calendar/. The [Late Drop Policy](#) is available at <http://www.sjsu.edu/aars/policies/latedrops/policy/>. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the [Advising Hub](#) at <http://www.sjsu.edu/advising/>.

Assignments and Grading Policy

GRADING

Exams.....	40%
Test Yourself Study Guide.....	10%
Science Daily.....	15%
Paper	30%
Milestones.....	5%
Total	100%

DO NOT trust the final total you see on Canvas.

Calculate your current grade yourself.

Use this formula:

$(AVG\ Tests \times .4) + (Test\ Yourself \times .1) + (AVG\ Science\ Daily \times .15) + (AVG\ Milestones \times .05) + (Paper \times .30)$

Course Grading Scale (% of Total Points):

A+ 96-100%	B+ 86-89%	C+ 76-79%	D+ 66-69%	F <60%
A 93-95%	B 83-85%	C 73-75%	D 63-65%	
A- 90-92%	B- 80-82%	C- 70-72%	D- 60-62%	

SCIENCE DAILY REACTION PAPERS

10 pts Each / Chapter PASS / NO PASS

Each **first class of a new chapter** you will come prepared with a printed article from Science Daily based on a search for a key term from the chapter we are covering in class. These Science Daily assignments will be used for in-class discussion.

How interesting you find the class depends on your level of participation. **There is one Science Daily assignment per chapter.**

FOR EACH SCIENCE DAILY ASSIGNMENT:

- Copy and Paste the ENTIRE SCIENCE DAILY ARTICLE you chose.
- Copy and Paste the ABSTRACT FROM THE ORIGINAL RESEARCH ARTICLE
- Provide:
 - Citation **in APA format** -- the citation includes the Author names, Title, Journal, Volume, Issue, pages.

Template:

Author Surname, F. M. (Publication Year). Article title: Subtitle. *Journal Title*, *Volume*(issue), page range. URL or DOI

Example:

Collins, R. (2004). Rituals of solidarity and security in the wake of terrorist attack. *Sociological Theory*, 22(1), 53–87.
<https://doi.org/10.1111/j.1467-9558.2004.00204.x>

- Then read the ORIGINAL RESEARCH ARTICLE and write a sentence on:
 - theory,
 - hypothesis,
 - independent and dependent variables,
 - with a little summary of the conclusion. Do NOT summarize the statistics (Results), just tell me what the researchers found and ...
 - ... why you thought it was cool.

HOW TO

Pick Your Science Daily Article

- Go to Science Daily.com
- Be sure to be in the section for Psychology
- Pick a news article you find interesting.

Find the Original Research Article

- At the bottom of the Science Daily article will be a reference to the ORIGINAL RESEARCH ARTICLE.
- Use the DOI or use the citation in **Psych Info or Google Scholar**,
 - PsycInfo: Go to the King Library → Databases → Psychology → PsycInfo → do a search and find the original article. If they do not have it, choose a different article.

Submit on Canvas AND bring paper copy to class for class discussions. Keep an electronic version for yourself – I may ask for the assignments to review them on paper.

- CANVAS: Upload the document in PDF or word document (do not cut and paste into the box). File name Format is of the files names you upload must be as follows, and it will include your last name, the lecture number for which this Science daily is for with the topic subject, separated with underscores. Here is the format followed by an example. Please follow this format as it will make verifying their completion easier.
- SDLectureNumber_LECTURETOPIC e.g., SD6_PERCEPTION

You will be handing them into me roughly other every class.

Paper There is a 6-page paper, not including title page and references, 1500 minimum word-count, in APA format (do NOT include an abstract). The paper will summarize at least TWO ORIGINAL PEER-REVIEWED ARTICLES on sensation and perception. Points will be deducted from late papers (see syllabus for DUE date).

University Policies

Academic integrity

Students should know that the University's [Academic Integrity Policy](http://sa.sjsu.edu/judicial_affairs/faculty_and_staff/academic_integrity/index.html) is available at http://sa.sjsu.edu/judicial_affairs/faculty_and_staff/academic_integrity/index.html. Your own commitment to learning, as evidenced by your enrollment at San Jose State University and the University's integrity policy, require you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The [Student Conduct and Ethical Development website](http://www.sa.sjsu.edu/judicial_affairs/index.html) is available at http://www.sa.sjsu.edu/judicial_affairs/index.html.

Instances of academic dishonesty will not be tolerated. Cheating on exams or plagiarism (presenting the work of another as your own, or the use of another person's ideas without giving proper credit) will result in a failing grade and sanctions by the University. For this class, all assignments are to be completed by the individual student unless otherwise specified. If you would like to include in your assignment any material you have

submitted, or plan to submit for another class, please note that SJSU's Academic Policy F06-1 requires approval of instructors.

Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with the [Disability Resource Center](http://www.drc.sjsu.edu/) (DRC) at <http://www.drc.sjsu.edu/> to establish a record of their disability.

Learning Assistance Resource Center (Optional)

The Learning Assistance Resource Center (LARC) is located in Room 600 in the Student Services Center. It is designed to assist students in the development of their full academic potential and to motivate them to become self-directed learners. The center provides support services, such as skills assessment, individual or group tutorials, subject advising, learning assistance, summer academic preparation and basic skills development. The [LARC website](http://www.sjsu.edu/larc/) is located at <http://www.sjsu.edu/larc/>.

SJSU Writing Center

The SJSU Writing Center is located in Room 126 in Clark Hall. It is staffed by professional instructors and upper-division or graduate-level writing specialists from each of the seven SJSU colleges. Our writing specialists have met a rigorous GPA requirement, and they are well trained to assist all students at all levels within all disciplines to become better writers. The [Writing Center website](http://www.sjsu.edu/writingcenter/about/staff/) is located at <http://www.sjsu.edu/writingcenter/about/staff/>.

Peer Mentor Center

The Peer Mentor Center is located on the 1st floor of Clark Hall in the Academic Success Center. The Peer Mentor Center is staffed with Peer Mentors who excel in helping students manage university life, tackling problems that range from academic challenges to interpersonal struggles. On the road to graduation, Peer Mentors are navigators, offering "roadside assistance" to peers who feel a bit lost or simply need help mapping out the locations of campus resources. Peer Mentor services are free and available on a drop-in basis, no reservation required. The [Peer Mentor Center website](http://www.sjsu.edu/muse/peermentor/) is located at <http://www.sjsu.edu/muse/peermentor/>

22818, Psyc 135, Cognition, Sec 01, SPRING 2023

The schedule is subject to change. Notification will be by email and class announcement.

Week	Date	Topics, Readings, Assignments, Deadlines
1	Jan 30 – Feb 1	Welcome & Logistics Intro History & Schools of Thought Biological, Computational, & Behavioral Research Juola & Koshino Ch. 1 Textbook Test Yourself Ch. 1 Gleik <i>The Information</i> Cobb <i>Why Your Brain is Not a Computer</i>
2	Feb 6 - 8	Neurons, Auto-Associators Frontal, Temporal, Motor, Parietal Cortices, Amygdala & Hippocampus, Bio Measurements Juola & Koshino Ch. 2 pg. 24-31, 34-38, 42-57 Textbook Test Yourself Ch. 2 Rama Chap 1 & 2
3	Feb 13 - 15	Neurocognition Finish Visual Physiology of the Eye, Parvo & Magno Cellular, LGN, Hemispheric Differences, What Where/How Lateral Inhibition & Opponent Processes & Color Juola & Koshino Ch.2, pg 32-33, 39-41, Ch. 3 Rama Chap 3 TEST 1 History & Neuro & MILESTONE 1
4	Feb 20 - 22	Receptive Fields, Depth Perception Object Recognition Hubel & Wiesel Feature Detectors, Spatial Frequency Detectors, Figure Ground, Gestalt Principles, Affordances Juola & Koshino Ch.3 Rama Chap 4
5	Feb 27 – Feb 29	Object Recognition Template & Feature Theories,

Week	Date	Topics, Readings, Assignments, Deadlines
		Object Recognition Face Perception, Change Blindness Juola & Koshino Ch.3 Textbook Test Yourself Ch. 3 TEST 2 Vision
6	March 5 - 7	Attention : Posner Cueing, Serial & Parallel Searches, Illusory Conjunctions & Feature Integration Theory, Attention, Juola & Koshino Ch. 5
7	March 12 - 14	Early & Late Selection, Emotions & Attention Brain & Attention, PRP & RSVP Juola & Koshino Ch. 5 Textbook Test Yourself Ch. 5 Rama Chap 6, 7 <i>Readings on Attention</i> TEST 3 Attention & MILESTONE 2
8	March 19 - 21	Memory: Encoding, Storing, Retrieving Short-Term Memory, Serial Position Curve Juola & Koshino Ch. 6 Textbook Test Yourself Ch. 6
9	March 26 -28	Working Memory & Mneumonics Long-Term Memory & False Memories & Flashbulb Memories Juola & Koshino Ch. 7 – 8 Textbook Test Yourself Ch. 7 & 8 TEST 4 Memory
10	April 2 - 4	SPRING BREAK --- NO CLASSES
11	April 9 -11	Language Taxonomy & Bottom-Up & Top-Down Processes Language Acquisition Juola & Koshino Ch. 9 Textbook Test Yourself Ch. 9 PAPER DUE
12	April 16 -18	Deep Structure of Language

Week	Date	Topics, Readings, Assignments, Deadlines
		Juola & Koshino Ch. 10 Rama Ch. 9-10 Boroditsky <i>The Role of Mind and Body in Abstract Thought</i> Boroditsky and Libermann <i>Does Language Shape Our Thoughts</i> Yee <i>What Whorf Really Said</i> TEST 5 Language
13	April 23 - 25	Mental Imagery : Depictive & Propositional Theories Juola & Koshino Ch. 4
14	April 30 – May 2	TBD (likely Language – if not Decision Making)
15	May 7 - 9	TBD (likely Language – if not Decision Making)
Final Exam		FINAL EXAM FRIDAY MAY 17