

**COGS 261N – Cortical Neuroscience
Fall 2021**

Virtual/Remote Course. Zoom link:

<https://uci.zoom.us/j/99380768761?pwd=MGtYNnU0SHd0TXJ5bXViNUpNRG5VZz09>

Tuesdays, 10:00 am – 12:50 pm

Jeff Krichmar
2328 Social and Behavioral Sciences Gateway
Department of Cognitive Sciences
Department of Computer Science
University of California, Irvine
jkrichma@uci.edu

Course Description: This course will introduce students to the field of systems neuroscience. The current methods and terminology in this field can be daunting. A goal of this course is to familiarize students with modern neuroscience. The course will cover sensory systems, motor systems, and cognitive neuroscience. Students will also learn how to read technical papers in neuroscience journals.

Prerequisites: Graduate student.

Textbook: “Neuroscience, 6th Edition”, Dale Purves et al. Sinauer, Oxford University Press.

Website: <https://canvas.eee.uci.edu/courses/39394>

Grading: Grades will be determined by two take home midterms, a take home final, and journal reports.

Office Hours: Office hours will be held on Zoom. Thursdays 2-3:30PM or appointment.

Schedule

Date	Topic	Reading
September 28	Studying the Nervous System Neural Signaling	Ch. 1 Chs. 2-8 (skim)
October 5	Somatosensory System Pain	Ch. 9 Ch. 10
October 12	Vision: The Eye Central Visual Pathways	Ch. 11 Ch. 12
October 19	The Auditory System The Vestibular System Midterm 1 handed out, Due on October 24 th	Ch. 13 Ch. 14
October 26	Motor Neuron Circuits & Motor Control Brainstem and Spinal Cord	Ch. 16 Ch. 17
November 2	Basal Ganglia Cerebellum	Ch. 18 Ch. 19
November 9	Eye Movements Visceral Motor System Midterm 2 handed out, Due on November 14 th	Ch. 20 Ch. 21
November 16	Cognitive Function and Cerebral Cortex Attention	Ch. 27 Ch. 29
November 23	Memory Emotion	Ch. 30 Ch. 31
November 30	Thinking, Planning and Deciding Final handed out, Due on December 5 th	Ch. 32