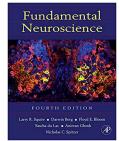
NEUR 602, Cellular Neuroscience, FALL 2020

Meets: Weds 10:30AM-1PM via Zoom/Synchronous Online Instructor: Nadine Kabbani, nkabbani@gmu.edu

Overview: This is a core graduate neuroscience course that concepts in cellular neuroscience and provides a survey of function, which includes recent topics in cell structure, function, electrical properties of neurons, and intracellular The course also enables an introduction to research trends in neuroscience building on a study of the primary literature.



presents key neuronal membrane signaling.

Textbook: FUNDAMENTAL NEUROSCIENCE (Squire et al., 4th edition)

Class structure and grading: The class will be divided into 2 parts: A 1.5 hour lecture followed by a 1 hour student led presentation and discussion on a research article. There will be 2 exams, and each will count for 40% of the final grade. The remaining 20% is based on participation and presentation of the research articles.

Exam Format: Exams will be administered online via Blackboard. Each Exam will be a combination of multiple choice and true/false questions. Exams will be available between 9am and 5pm on the scheduled day and you will have up to 2 hours to complete the exam.

Article Selection and Presentation: We will explore some of the primary literature cited in the chapter. Each student will choose an article from the Reference section of the chapter and provide a 40 min presentation on that article. The articles will be posted on Blackboard during the first week of class.

Date	Торіс	Presenter	Book Chapters
8/26	Course Introduction/Fundamentals of Neuroscience		Ch. 1
9/2			Ch. 2,3
9/9	Basic Plan and Cellular Components of Nervous	Richard	Ch.2-4
	Tissue Subcellular Organization	Ο.	
		Dylan S.	
9/16	Membrane and Action Potential	Liza V.	Ch. 5
		Apoorva	
9/23	Neurotransmitters	Jeffrey K.	Ch. 6
		Brandon	
		L.	
9/30	Neurotransmitter Release	Rafael HJ.	Ch. 7
		Yasmeen	
10/7	Neurotransmitter Receptors	Sreehari	Ch. 8
		G.	
		Zara. A.	
10/14	EXAM 1 (online)		
10/21	Intracellular Signaling	Diego	Ch. 9
10/28	Intracellular Signaling 2: lipids/calcium	Angie C.	Ch. 9

11/4	Brain Energy Metabolism	Bailey	Ch. 12
		Nooshin	
11/11	Protein Synthesis, Degradation	Jeremy L.	
11/18	Neuroimmune Interaction	Aya A. Kayleen H.	
11/25	No class- Thanksgiving		
12/2	EXAM 2 (online)		