COURSE SCHEDULE: NEU 401 (Summer 2023) with Dr. Cameron Prigge

Important Note: Refer to the course calendar (below) for a schedule of topic dates and due dates. Activity and assignment details will be explained in detail within each week's corresponding learning module in D2L. If you have any questions, please contact your instructor.

For Summer 2023, this course is offered online in a synchronous or asynchronous format. Lectures will be recorded and posting following the synchronous class for asynchronous students. Weekly quizzes, homework, and exams must be completed by the deadlines on the schedule.

Required Reading: Principles of Neurobiology (2nd ed). Liqun Luo. 2020. Online or hard copy. Please note this schedule is subject to change.

Week	***Dates***	***Topic(s)***	***Assigned Reading***	***Homework***	***Quizzes/Exams***
1	May 16 & 18	Neural micronetwork motifs; Cell biological properties of neurons Electrical properties of neurons: RMP and neurons as electrical circuits	Syllabus and Course Schedule; Luo: p. 28-36 Luo: p. 37-49	Week 1 Worksheet DUE 5/23 by 11:59PM	*Week 1 Intro Survey Due 5/19 by 11:59PM*
2	May 23 & 25	Electrical properties of neurons: APs and AP propagation Neurotransmission	Luo: p. 49-61 Luo: p. 69-75	Week 2 Worksheet DUE 5/30 by 11:59PM	Week 2 Quiz Due 5/23 by 12PM
3	May 30 & Jun 1	Organization of cell types: Neurons and Glia TBD	--- TBD	Week 3 Worksheet DUE 6/6 by 11:59PM	*Week 3 Quiz Due 6/2 by 12PM* **Unit 1 exam open 6/1**
4	Jun 6 & 8	Axon guidance Synaptogenesis	TBD TBD	Week 4 Worksheet DUE 6/13 by 11:59PM	Week 4 Quiz Due 6/6 by 12PM
5	Jun 13 & 15	Synaptic specificity Synaptic pruning	Sanes & Zipurksy 2020 Sakai et al. 2020	Week 5 Worksheet DUE 6/20 by 11:59PM	Week 5 Quiz Due 6/13 by 12PM

Week	*Dates*	*Topic(s)*	*Assigned Reading*	*Homework*	*Quizzes/Exams*
	Jun 20 & 22	Synaptic plasticity Olfaction	Luo: p. 450-464 Luo: p. 213-237	Week 6 Worksheet DUE 6/27 by 11:59PM	*Week 6 Quiz* *Due 6/23 by 12PM* **Unit 2 exam open 7/22**
7	Jun 27 & 29	Visual System: Retina Visual System: Higher order visual processing	Luo: p. 136-150 Luo: p. 151-170	Week 7 Worksheet DUE 7/6 by 11:59PM	Week 7 Quiz Due 6/27 by 12PM
8	July 4 & 6	NO CLASS – Independence Day 😊 Wiring the visual system	--- Luo: p. 173-186; 187-198	Week 8 Worksheet DUE 7/11 by 11:59PM	Week 8 Quiz Due 7/6 by 12PM
9	July 11 & 13	Developmental wiring specificity Development of axons and dendrites	Luo: p. 281-296 Luo: p. 296-313	Week 9 Worksheet DUE 7/18 by 11:59PM	*Week 9 Quiz* *Due 7/14 by 12PM* **Unit 3 exam open 7/13**
10	July 18 & 20	Development of neural maps Neurogenetics	Luo: p. 313-325 Luo: p. 326-332; 411-423	Week 10 Worksheet DUE 7/25 by 11:59PM	Week 10 Quiz Due 7/18 by 12PM
11	July 25 & 27	Regulation of eating and drinking Regulation of sleep and circadian rhythm	Luo: p. 375-383 Luo: p. 394-409	Week 11 Worksheet DUE 8/1 by 11:59PM	Week 11 Quiz Due 7/25 by 12PM
12	Aug 1 & 3	Neurodegenerative disease Neurodevelopmental disorders	Luo: p. 499-520 Luo: p. 533-543	---	*Week 12 Quiz* *Due 8/1 by 12PM* **Unit 4 exam open 8/3**