

Graduate Degree Plan

PhD in Neuroscience

Students Starting Academic Year: 2021-2022

General Degree Requirements:

- Completion of at least 180 term hours
- At least 30 of those term hours must be in Didactic courses
- Completion of at least three terms of Research Rotation
- Students must maintain satisfactory academic progress as detailed in the Student Handbook

Year One Requirements:

Term 1:	GS-NE-5111	Neuroscience Lab 1	1	Total to Date
	GS-NE-6303	Electrical Signaling in the Brain	3 (Didactic)	
	GS-NE-6304	Brain Cell Biology & Development	3 (Didactic)	
	GS-GS-5111	Strategies for Success in Graduate School	1	
	GS-GS-5101	Responsible Conduct of Research 1	1	
	GS-NE-5030	Research Rotation ± Electives	3	
	Total:			
Term 2:	GS-NE-6201	Analyses of Neuronal Function	2 (Didactic)	Total to Date
	GS-NE-6202	Anatomy of the Nervous System	2 (Didactic)	
	GS-NE-6112	Neuroscience Lab 2	1 (Didactic)	
	GS-NE-5100	Neuroscience Seminar Journal Club	1	
	GS-NE-5030	Research Rotation ± Electives	6	
	Total:			
Term 3:	GS-NE-6301	Neural Systems 1	3 (Didactic)	Total to Date
	GS-NE-6206	Genetics: Principles, Applications & Tools for Neuroscience	2 (Didactic)	
	GS-NE-5100	Neuroscience Seminar Journal Club	1	
	GS-NE-5030	Research Rotation ± Electives	6	
	Total:			
Term 4:	GS-NE-6302	Neural Systems 2	3 (Didactic)	Total to Date
	GS-NE-6101	Core Concepts in Computational Neuroscience	1 (Didactic)	
	GS-NE-6204	Neurobiology of Disease	2 (Didactic)	
	GS-NE-5100	Neuroscience Seminar Journal Club	1	
	GS-NE	Research Hours ± Electives	5	
	Total:			
Term 5:	GS-NE	Research Hours ± Electives	12	Total to Date
	Total:			12

Year Two Requirements:

Term 1:	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic) <i>(two-term course)</i>	Total to Date
	GS-NE	Research Hours ± Electives	10	
Total:			12 (2)	72 (24)

Term 2:	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic) <i>(two-term course)</i>	Total to Date 84 (26)
	GS-NE-5101	Preparing for your Neuroscience Qualifying Exam	1	
	GS-GS-5102	Responsible Conduct of Research 2	1	
	GS-NE-5100	Neuroscience Seminar Journal Club	1	
	GS-NE	Research Hours ± Electives	7	
	Total:			
Term 3:	GS-NE-5100	Neuroscience Seminar Journal Club	1	Total to Date 96 (26)
	GS-NE	Research Hours ± Electives	11	
	Total:			
<i>Student's Thesis Advisory Committee must be appointed by the end of Term 3 in the student's second year of enrollment.</i>				
Term 4:	GS-NE-5100	Neuroscience Seminar Journal Club	1	Total to Date 108 (26)
	GS-NE	Research Hours ± Electives	11	
	Total:			
Term 5:	GS-NE	Research Hours ± Electives	12	Total to Date
			12	120 (26)
<i>Four additional didactic hours are required for a total of thirty (30)</i>				
Qualifying Exam Requirement:				
<ul style="list-style-type: none"> • Must be taken by the end of the second year of enrollment. • Student must complete all prerequisite activities defined by their program before taking the exam 				
Course Requirements beyond Year Two:				
Year 3, Term 3:	GS-GS-5103	Responsible Conduct of Research 3	1	
Year 4, Term 3:	GS-GS-5104	Responsible Conduct of Research 4	1	
Recurring requirements through Graduation:				
Terms 1-5:	GS-NE-5050	Dissertation		As required*
<i>*Students shall enroll in the number of credits of Dissertation needed to be enrolled full-time (12 credits) each term through Graduation.</i>				
Research Course Work:				
	GS-NE-5010	Readings		
	GS-NE-5030	Research Rotation		
	GS-NE-5040	Special Projects		
	GS-NE-5050	Dissertation		
Additional Neuroscience Courses*:				
	GS-NE-6205	Visual Neuroethology of Prey Capture & Predator Avoidance		
	GS-NE-6305	Concepts of Learning & Memory		
	GS-NE-6307	Physiology of the Visual System		
	GS-NE-6401	Fundamentals of Human Neuroimaging	<i>(two-term course)</i>	
<i>*Students may select electives from open course options in all graduate programs. Courses may be viewed in the AY21 Graduate School Bulletin</i>				