Behavioral Neuroscience

To obtain specific instructions for how to apply to the M.S. and/or Ph.D. in Behavioral Neuroscience, prospective students should visit this page: <u>https://www.uab.edu/cas/psychology/graduate-programs/</u> <u>behavioral-neuroscience</u>

The curriculum in Behavioral Neuroscience provides a student with advanced training that is broadly based in neuroscience. All students have a plan of coursework that includes Overview of Behavioral Neuroscience, a two-semester statistics sequence (PY 716-PY 717), and an ongoing seminar in current research (PY 756). Advanced academic coursework is determined by the student and mentor. The student initially rotates among faculty and laboratories during the first year to obtain breadth in points of view and experimental techniques. Student then chooses a mentor with whom they normally complete the remainder of their research training. Before admission to candidacy, each student must complete a 2nd Year research requirement and pass the qualifying examination. Following acceptance of a proposal for dissertation research, the student is admitted to candidacy. The Ph.D. degree is awarded upon successful defense of the dissertation.

Plan 1 Thesis

Requirements		Hours		
PY 653	Foundations of Behavioral Neuroscience	4		
PY 716 & 716L	Introduction to Statistics and Measurement and Lab for Introduction to Statistics and Measurement	4		
Required Statistics Elective				
PY 717 & 717L	Applied Statistical Methods and Lab for Applied Statistical Methods			
PY 718	Advanced Research Design			
Program Electives ¹				
Plan 1 Thesis Research				
PY 698	Premaster's Degree Graduate Research	6		
PY 699	Master's Level Thesis Research	6		
Total Hours		42-43		

Plan 2 Non-Thesis

Requirements		Hours
PY 653	Foundations of Behavioral Neuroscience	4
PY 716 & 716L	Introduction to Statistics and Measurement and Lab for Introduction to Statistics and Measurement	4
Required Statistics Elective		3-4
PY 717 & 717L	Applied Statistical Methods and Lab for Applied Statistical Methods	
PY 718	Advanced Research Design	
Program Electives ¹		19
Total Hours		30-31

¹ Program Electives:

PY 520, PY 620, PY 635, PY 687, PY 693, PY 704, PY 707, PY 708, PY 717, PY 717L, PY 718, PY 719, PY 719L, PY 720, PY 746, PY 792, NBL 625

If entering with a baccalaureate degree:

- Completion of 48 credit hours of course work prior to candidacy.
- Up to 16 credits of the 48 can be as non-dissertation research credits.
- Up to 10 credits of the 48 can be as lab rotation, seminar, or directed study credits.
- Must complete at least two semesters in candidacy and accumulate at least 24 credit hours in 799 research **OR**
 - must complete at least two semesters in candidacy and have accumulated at least 12 credit hours in 799 research AND, either during or before candidacy, 12 credit hours in other appropriate research-based coursework that has been approved by the graduate student's program.

If entering with a previous Masters degree appropriate to the PhD degree field:

- Completion of 27 credit hours of course work prior to candidacy.
- Up to 6 credits of the 27 can be as non-dissertation research credits.
- Up to 6 credits of the 27 can be as lab rotation, seminar, or directed study credits.
- Must complete at least two semesters in candidacy and accumulate at least 24 credits in 799 research **OR**
 - must complete at least two semesters in candidacy and have accumulated at least 12 credit hours in 799 research AND, either during or before candidacy, 12 credit hours in other appropriate research-based coursework, which has been approved by the graduate student's program.

PY 792 Introduction to Neurobiology (Summer Before Year One) 6 Year One PY 619 Diversity, Equity and Inclusion in Research and the Workplace 1 PY 619 Diversity, Equity and Inclusion in Research and the Workplace 4 PY 613 Foundations of Behavioral Neuroscience 4 PY 716 Introduction to Statistics and Measurement 4 & 716L and Lab for Introduction to Statistics and Measurement 4 & 717L Applied Statistical Methods 4 & 717L and Lab for Applied Statistical Methods 4 PY 756 Research Seminar in Behavioral Neuroscience 2 PY 798 Predoctoral Degree Graduate Research 4-6 Psychology Elective ² 3 3 Year Two PY 756 Research Seminar in Behavioral Neuroscience (Take Twice in Year Two) 1 PY 756 Research Seminar in Behavioral Neuroscience 1 1 PY 756 Research Seminar in Behavioral Neuroscience 1 PY 756 Research Seminar in Behavioral Neuroscience 1 PY 756 Research Seminar in Behavioral Neuroscience 1 PY 756 Research Semina				
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Twice in Year Two)PY 756Research Seminar in Behavioral Neuroscience1				
PY 798 Predoctoral Degree Graduate Research 7				
PY 798 Predoctoral Degree Graduate Research (Summer of 3-5 Year Two)				
Three Psychology Electives ² 9				
Year Three				
GRD 717 Principles of Scientific Integrity 3				
PY 756 Research Seminar in Behavioral Neuroscience (Take 1 Twice in Year Three)				
PY 756 Research Seminar in Behavioral Neuroscience 1				
PY 798 Predoctoral Degree Graduate Research 12				
PY 798 Predoctoral Degree Graduate Research 1				
PY 798 Predoctoral Degree Graduate Research (Summer of 3-5 Year Three)				

Year Four

Total Hours		112-122
PY 799	Doctoral Dissertation Research (Summer of Year Five)	3-5
PY 799	Doctoral Dissertation Research	4
PY 799	Doctoral Dissertation Research	12
PY 756	Research Seminar in Behavioral Neuroscience	1
PY 756	Research Seminar in Behavioral Neuroscience (Take Twice in Year Five)	1
Year Five		
PY 799	Doctoral Dissertation Research (Summer of Year Four)	3-5
PY 799	Doctoral Dissertation Research	12
PY 799	Doctoral Dissertation Research	4
PY 756	Research Seminar in Behavioral Neuroscience	1
PY 756	Research Seminar in Behavioral Neuroscience (Take Twice in Year Four)	1

¹ PY 792 is completed during the summer, mid July to August, prior to the first semester in the Behavioral Neuroscience program.

 ² Elective Classes: PY 520, PY 620, PY 635, PY 687, PY 693, PY 717, PY 717L, PY 718, PY 719, PY 719L, PY 720, PY 727, PY 746, PY 751, PY 791, BY 511, BY 616, BY 648, BME 664, BME 764, BME 665, BME 765, CH 561, CH 562, CS 665, NBL 729, NBL 730, NTR 718, PHR 701

Dauphin Island

Prior to starting the first semester of courses, students attend a three week course held at the <u>Dauphin Island Research Facility</u>. This course introduces students to many of the basic techniques and issues in the field of neuroscience and is paid for by the department.