

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: <https://www.uab.edu/cas/psychology/graduate-programs/behavioral-neuroscience>

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.

Master of Science in Behavioral Neuroscience

Plan 1 Thesis

Requirements	Hours
PY 653 Foundations of Behavioral Neuroscience	4
PY 716 Introduction to Statistics and Measurement & 716L and Lab for Introduction to Statistics and Measurement	4
Required Statistics Elective	3-4
PY 717 Advanced Univariate Statistics & 717L and Lab for Advanced Univariate Statistics	
PY 718 Advanced Research Design	
Program Electives¹	19
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 Introduction to Statistics and Measurement & 716L and Lab for Introduction to Statistics and Measurement	4
Required Statistics Elective	3-4
PY 717 Advanced Univariate Statistics & 717L and Lab for Advanced Univariate Statistics	
PY 718 Advanced Research Design	
Program Electives¹	19
Total Hours	30-31

¹ Program Electives:

PY 520, PY 620, PY 635, PY 683, 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 751, PY 785, NBL 625

Ph.D. in Behavioral Neuroscience

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.

Requirements	Hours
Year One	
PY 619 Access and Engagement in Research and the Workplace	1
PY 653 Foundations of Behavioral Neuroscience	4
PY 716 Introduction to Statistics and Measurement & 716L and Lab for Introduction to Statistics and Measurement	4
PY 717 Advanced Univariate Statistics & 717L and Lab for Advanced Univariate Statistics	4
PY 756 Research Seminar in Behavioral Neuroscience	2
PY 798 Predoctoral Degree Graduate Research	4-6
Psychology Elective ²	3
Year Two	
PY 756 Research Seminar in Behavioral Neuroscience (Take Twice in Year Two)	1
PY 756 Research Seminar in Behavioral Neuroscience	1
PY 798 Predoctoral Degree Graduate Research	7
PY 798 Predoctoral Degree Graduate Research (Summer of Year Two)	3-5
Three Psychology Electives ²	9
Year Three	
GRD 717 Principles of Scientific Integrity	3
PY 756 Research Seminar in Behavioral Neuroscience (Take Twice in Year Three)	1

2 Behavioral Neuroscience

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 Year Three)	3-5
Year Four		
PY 756	Research Seminar in Behavioral Neuroscience (Take Twice in Year Four)	1
PY 756	Research Seminar in Behavioral Neuroscience	1
PY 799	Doctoral Dissertation Research	4
PY 799	Doctoral Dissertation Research	12
PY 799	Doctoral Dissertation Research (Summer of Year Four)	3-5
Year Five		
PY 756	Research Seminar in Behavioral Neuroscience (Take Twice in Year Five)	1
PY 756	Research Seminar in Behavioral Neuroscience	1
PY 799	Doctoral Dissertation Research	12
PY 799	Doctoral Dissertation Research	4
PY 799	Doctoral Dissertation Research (Summer of Year Five)	3-5
Total Hours		106-116

¹ Elective Classes: PY 520, PY 620, PY 635, PY 683, PY 687, PY 693, PY 704, PY 717, PY 717L, PY 718, PY 719, PY 719L, PY 720, PY 727, PY 746, PY 751, PY 785, 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