

DOCTOR OF PHILOSOPHY WITH A MAJOR IN NEUROSCIENCE AND NEUROTECHNOLOGY

This program has been approved and will be offered effective with the 2025-26 Catalog year.

Program of Study

Summary of Requirements & Curriculum

Sequence of requirements on the pathway to the degree:

1. A program of study in neuroscience core and depth courses
2. A series of seminar/journal club & professional development courses intended to prepare students for their qualifying exam and thesis defense
3. A qualifying exam that includes the creation and oral defense of an NIH F31 style or similar proposal of the student's proposed thesis research topic
4. At least one scientific paper in which the student played a central role, accepted for publication or indexed on a preprint server (e.g. bioRxiv)
5. A written Ph.D. thesis and public defense of that thesis

The NSNT student's written thesis proposal satisfies Georgia Tech's requirement for a written qualifying exam. The NSNT student's oral defense of their thesis proposal satisfies Georgia Tech's requirement for an oral qualifying exam. Georgia Tech requires that all doctoral students maintain a 3.0 grade point average. There is no foreign language requirement.

Code	Title	Credit Hours
Core Courses		9
Three courses providing core competencies in neuroscience to be taken in the first 2 years. Topics across all scales from cell and molecular to systems and behaviors.		
NEUR 6001	Principles of Neuroscience and Neurotechnology	3
NEUR 6002	Neurophysiology	3
NEUR 6003	Cognitive Neuroscience	3
Depth Electives		6
Courses designed to build the student's expertise in the area of their intended research area. Selected in consultation with the student's research advisor.		
Seminar & Journal Club		8
Students attend seminars and read papers as part of a journal club (2 credits) for one semester each year.		
Professional Development Course		3
Students take 2 courses focused on neuroscience communication, ethics, and professional/career development in their first year. Students then take a final writing course in their 2nd-4th year.		
Thesis Research		21

NSNT students register for credit while conducting dissertation research

NEUR 9000	Doctoral Research	1
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