

**Thomas Jefferson University
Graduate Program in Neuroscience**

Program of Study

Fall/Year 1		
GC 550	Foundations in Biomedical Sciences	10
NS 601	Profiles in Neuroscience Research	1
NS 710	Seminar Series	1
NS 616	Journal Club	1
NS 610	Research Rotation	3
NS 910	Research	Var
Spring I/Year 1		
NS 700	Cellular Neurophysiology	3
BI 525	Biochemistry and Molecular Biology	3
NS 720	Seminar Series	1
NS 626	Journal Club	1
NS 620	Research Rotation	3
NS 920	Research	Var
Spring II/Year 1		
NS 715	Cellular and Molecular Neuroscience	3
NS 530	Neuroanatomy	3
NS 730	Seminar Series	1
NS 636	Journal Club	1
NS 630	Research Rotation	3
NS 920	Research	Var
Summer/Year 1		
NS 930	Research	Var

Fall/Year 2		
NS 725	Topics in Translational Neuroscience	2
_____	Elective _____	2-3
NS 710	Seminar Series	1
NS 616	Journal Club	1
NS 910	Research	Var
Spring I/Year 2		
GC 640	Research Ethics	1
PR 525	Principles of Clinical Pharmacology	3
NS 720	Seminar Series	1
NS 626	Journal Club	1
NS 920	Research	Var
Spring II/Year 2		
NS 690	Neuropharmacology	3
NS 740	Applied Statistics in Neuroscience	3
NS 730	Seminar Series	1
NS 636	Journal Club	1
NS 920	Research	Var
Summer/Year 2		
NS 930	Research	Var
Comprehensive Examination		

Electives

Category 1: Cell and Molecular Biology

Advanced Human Genetics
Advanced Topics in Cell Biology
Advanced Topics in Virology and Neurovirology
Developmental Biology – Embryology
Fundamentals of Immunology
Introduction to Molecular Genetics
Principles of Molecular and Cellular Development
Special Topics in Signal Transduction

Category 2: Neuroscience and Physiology

Advanced Neurophysiology
Fundamentals of Integrative Physiology
Neurobiology and Endocrinology
Special Topics in Ion Channel Biophysics

Category 3: Pharmacology

General Pharmacology
Introduction to Pharmacology
Molecular Pharmacology

Category 4: Pathology and Clinical Sciences

Clinical Mentorship in the Neurosciences
Fundamentals of Viral Infectious Diseases in the CNS
Pathological Aspects of Disease
Basic Neuropathology
Pathogenesis