UPSTATE
MEDICAL UNIVERSITY

NEUROSCIENCE PROGRAM
Ph.D. Requirements Checklist

Student's Name: _____ Semester/Year Entered: _____

The didactic credit requirement towards the PhD (min 30 cr) is satisfied through 15 cr of required GS coursework and 15 or more credits from NS courses (up to 2 cr of non-NS courses can be counted without petition). Credit accrual towards NS program requirements can begin in the 1st semester of graduate school with N631 and reach 30 cr by the end of the 2nd year in the graduate program.

Required courses (including GC credits):		Credit Hours	Year Completed	Grade
GS604	Graduate Student Research Opportunities (fall, yr1)	0		
GS612	Biomedical Sciences Laboratory Rotations (fall and spring, yr 1)			
	or N675 Research Rotations in Neuroscience	6		
GS616	Foundations of Molecular and Cellular Biology (fall, yr 1)	4		
MPHP602-002	Principles of Biostatistics	3		
GS637	Responsible Conduct of Scientific Research (Research Ethics)	2		
GS892	Presentation and Analysis of Scientific Literature: Journal Club (fall, yr 1)	1		
N507	Intro to Neuroscience (Spring, yr 1)	3		
	OR			
N601	Neuroscience (Spring starting in June, yr 1)	3		
N629	Scientific Writing in Neuroscience (fall, yr 2)	1		
N627	Grant Writing in Neuroscience (spring, yr 2)	3		

Electives:

N602	Cell Physiology of Exitable Cells (Same as PHA602 and PHY602)	2		
N610	Topics in Developmental Neurobiology	2		
N616	Topics in Vision Research I	2		
N617	Methods in Neuroscience Research	2		
N618	Topics in Vision Research II	2		
N619	Neurobiology of Disease	2		
N620	Advanced Topics in Receptors & Cell Signaling	1		
N621	Neuroanatomy Lab (same as A621)	2		
N623	Systems Neuroscience	3		
N628	Neurobiology of Addiction	2		
N630	Independent Studies in Neuroscience (1-3 variable credit)	_____		
N631	Topics in Neuroscience	1		
	(**only open to 1st yr students**; FALL; WEEKS 8-14)			
N633	Advanced Topics in Stem Cell Research I	1		
N634	Advanced Topics in Stem Cell Research II	1		
N635	Neurophysiology Methods	2		
N653	Topics in Cellular and Molecular Neurobiology	2		

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<u>Sample NS Curriculum</u> (see available courses above):

Year 1 (6 NS cr)

Fall	N631 Topics in Neuroscience	1
Spring	N617 Methods in Neuroscience Research	2
Spring	N601 Neuroscience (starting in June)	3

Year 2 (min. 7 cr)		Credit Hours
Fall	N629 Scientific Writing	1
Spring	N627 Grant Writing in Neuroscience	3
Fall & Spring	Additional NS Electives (variable credits, 3 courses suggested	3+

<u>Presentations:</u>

Students are required to attend all Neuroscience seminars and present once a year.

<u>Qualifying Examinations:</u>

Students are required to take the Qualifying Examination (written and oral sections) by the summer of their second year.

<u>Dissertation:</u>

The final requirement is a written dissertation and thesis oral defence based on the student's original research.