

# NEUROSCIENCE TRACK

## FALL YEAR 1

Course #	Course Name	Credit Hours	Graded Hours
MSCI 601	Principles of Basic Medical Sciences I	5	5
MSCI 687	Professionalism and Ethics	1	1
<i>One of the following:</i>			
NRSC 634/BIOL 634	Comparative Neurobiology	3	3
NRSC 601	Principles of Neuroscience I	3	3
NRSC 649/PSYC 649	Seminars in Behavioral Neuroscience	3	3
<b>Lab Rotation I &amp; II</b>			
	Semester Hours	9-10	9
	Cumulative Hours	9-10	9

## SPRING YEAR 1

Course #	Course Name	Credit Hours	Graded Hours
MSCI 610	Pathogenesis of Human Disease	1-4	1-4
<i>Electives</i>			
NRSC 628	Principles of Neuroscience II	4	4
MSCI 681-629	Biology of Non-Coding RNA Molecules	3	3
NRSC 605/VIBS 606	Neuroanatomical Systems: Neurodegenerative Diseases	4	4
MSCI 691-631	Neuroscience Journal Club	1	1
<b>Lab Rotation III &amp; IV (if needed)</b>			
	Semester Hours	9	9
	Cumulative Hours	18-19	18

## SUMMER YEAR 1

Course #	Course Name	Credit Hours	Graded Hours
NExT 681	SEMINAR	1	1
MSCI 691	Research	5	0
	Semester Hours	6	1
	Cumulative Hours	25	19

**FALL YEAR 2**

<u>Course #</u>	<u>Course Name</u>	<u>Credit Hours</u>	<u>Graded Hours</u>
Electives			
NEXT 603	Neuropsychopharmacology	4	4
	Elective	3-4	3-4
MSCI 691	Research	1-2	
MSCI 691-631	Neuroscience Journal Club	1	1
	Semester Hours	9	9
	Cumulative Hours	34	26-28

**SPRING YEAR 2**

<u>Course #</u>	<u>Course Name</u>	<u>Credit Hours</u>	<u>Graded Hours</u>
MSCI 611	Experimental Design for Biomedical Science	3	3
	Elective	3-4	3-4
MSCI 691	Research	2-3	0
	Semester Hours	9	3-7
	Cumulative Hours	43	32-33

**SUMMER YEAR 2**

<u>Course #</u>	<u>Course Name</u>	<u>Credit Hours</u>	<u>Graded Hours</u>
MSCI 691	Research	6	0
	Semester Hours	6	0
	Cumulative Hours	49	33

**FALL YEAR 3**

<u>Course #</u>	<u>Course Name</u>	<u>Credit Hours</u>	<u>Graded Hours</u>
MSCI 691	Research	9	0
	Semester Hours	9	0
	Cumulative Hours	58	33

**SPRING YEAR 3**

<u>Course #</u>	<u>Course Name</u>	<u>Credit Hours</u>	<u>Graded Hours</u>
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MSCI 691	Research	9	0
	Semester Hours	9	0
	Cumulative Hours	67	33

### SUMMER YEAR 3

<u>Course #</u>	<u>Course Name</u>	<u>Credit Hours</u>	<u>Graded Hours</u>
MSCI 691	Research	6	0
	Semester Hours	6	0
	Cumulative Hours	73	33

### FALL YEAR 4

<u>Course #</u>	<u>Course Name</u>	<u>Credit Hours</u>	<u>Graded Hours</u>
MSCI 691	Research	9	0
	Semester Hours	9	0
	Cumulative Hours	82	33

### SPRING YEAR 4

<u>Course #</u>	<u>Course Name</u>	<u>Credit Hours</u>	<u>Graded Hours</u>
MSCI 691	Research	9	0
	Semester Hours	9	0
	Cumulative Hours	91	33

### SUMMER YEAR 4

<u>Course #</u>	<u>Course Name</u>	<u>Credit Hours</u>	<u>Graded Hours</u>
MSCI 691	Research	6	0
	Semester Hours	6	0
	Cumulative Hours	97	33

### ELECTIVES

<u>Course #</u>	<u>Course Name</u>	<u>Credit/Graded Hours</u>
ANSC / VTPP 654	Molecular Endocrinology	3
BICH 603	General Biochemistry	3
BICH 628	Computational Biology	3
BICH 631	Biochemical Genetics	3

<b>BICH 672</b>	<b>Biological Membranes</b>	<b>1</b>
<b>BICH/BIOL 650</b>	<b>Genomics</b>	<b>3</b>
<b>BIOL 611</b>	<b>Molecular Biology of Differentiation/Development</b>	<b>3</b>
<b>BIOL 651</b>	<b>Bioinformatics</b>	<b>3</b>
<b>BIOL 674</b>	<b>Cellular &amp; Molecular Aspects of Development</b>	<b>3</b>
<b>MCMD 625</b>	<b>Nucleic Acid / Protein Interactions</b>	<b>1</b>
<b>MCMD 671</b>	<b>Macromolecular Folding / Design</b>	<b>3</b>
<b>MSCI 612</b>	<b>Current Topics in Cell Signaling</b>	<b>3</b>
<b>NExT 603</b>	<b>Advanced Neuropsychopharmacology</b>	<b>4</b>
<b>NRSC 603 (VIBS 603)</b>	<b>Neuroanatomy</b>	<b>4</b>
<b>NRSC 604 (VIBS 604)</b>	<b>Biomedical Neuroendocrinology and Endocrine Disorders</b>	<b>4</b>
<b>NRSC 605 (VIBS 606)</b>	<b>Neuroanatomical Systems: Neurodegenerative Diseases</b>	<b>4</b>
<b>NRSC 611 (BIOL 611)</b>	<b>Molecular Biology of Differentiation and Development</b>	<b>3</b>
<b>NRSC 634 (BIOL 634)</b>	<b>Comparative Neurobiology</b>	<b>3</b>
<b>NRSC 635/BIOL 601</b>	<b>Biological Clocks</b>	<b>3</b>
<b>NRSC 636 (BIOL 615)</b>	<b>Signaling in Behavior and Development</b>	<b>3</b>
<b>NRSC 640/VIBS 640</b>	<b>Neurobiology</b>	<b>1-5</b>
<b>NRSC 644/BIOL 644</b>	<b>Neural Development</b>	<b>3</b>
<b>NRSC 649 (PSYC 649)</b>	<b>Seminar in Behavioral Neuroscience (topics vary)</b>	<b>3</b>
<b>VIBS 617-605</b>	<b>Cell Signaling</b>	<b>1-5</b>