## **Honors Neuroscience Requirements (90)**

Foundation Courses  BIOL 107 - Introduction to Cell Biology CHEM 101 - Introductory University Chemistry I MATH 134 - Calculus for the Life Sciences I PHYS 124 - Particles and Waves PHYS 126 - Fluids, Fields, and Radiation PSYCH 104 - Basic Psychological Processes	
3 units from:  MATH 136 - Calculus for the Life Sciences II  STAT 151 - Introduction to Applied Statistics I	<u> </u>
Senior Courses  BIOCH 200 - Introductory Biochemistry BIOL 207 - Molecular Genetics and Heredity CHEM 261 - Organic Chemistry I CHEM 263 - Organic Chemistry II NEURO 210 - Introduction to Clinical Neuroscience NEURO 375 - Functional Neuroanatomy PHYSL 212 - Human Physiology I PHYSL 214 - Human Physiology II PHYSL 372 - Systems Neuroscience PSYCH 275 - Brain and Behavior	
<b>3 units from:</b> BIOL 201 - Eukaryotic Cellular Biology CELL 201 - Introduction to Molecular Cell Biology	3 units from: PMCOL 371 - Cellular Neuroscience ZOOL 342 - Neurobiology
9 units from:  GENET 270 - Foundations of Molecular Genetics GENET 390 - Gene Manipulation  PSYCH 371 - The Neurobiology of Learning and Memory PSYCH 375 - Introduction to Cognitive Neuroscience PSYCH 377 - Human Neuropsychology ZOOL 344 - Laboratory Exercises in Animal Physiology  6 units from List A (Cellular and Molecular Neuroscier	
NEURO 410 - Cellular and Molecular Aspects of Normal Aging an NEURO 411 - Clinical and Basic Science Aspects of Age-related N PHYSL 444 - Current Topics in Neuroscience PMCOL 412 - Drugs and the Nervous System PMCOL 475 - Signal Transduction Systems as Pharmacological - PSYCH 478 - Behavior and Brain Chemistry	Neurodegenerative Disorders
6 units from List B (Systems and Cognitive Neurosciel KIN 497 - Selected Topics in Kinesiology and Sport (Computation NEURO 520 - Neuroplasticity NEURO 525 - Neuroimaging in Neuroscience PHYSL 403 - Neuroendoimmunomodulation PHYSL 405 - Sensory Physiology PSYCH 471 - Neurophysiology: Theory, Methods, and Analysis PSYCI 511 - Biological Aspects of Psychiatry	nce):

## Choose one Stream (12 units total) Thesis Stream (See Note 1): ■ NEURO 498 - Honors Research Project in Neuroscience I (6 units) ■ NEURO 499 - Honors Research Project in Neuroscience II (6 units) OR Non-Thesis Stream - Choose 1, 2 or 3 from below: 1. □ NEURO 450 - Readings on Selected Topics in Neuroscience ■ NEURO 451 - Honors Research Project in Neuroscience ■ NEURO 452 - Honors Research Project in Neuroscience 3 units from: List A or B (See Note 2) 2. □ NEURO 450 - Readings on Selected Topics in Neuroscience ■ NEURO 451 - Honors Research Project in Neuroscience 6 units from: List A or B (See Note 2) ☐ NEURO 450 - Readings on Selected Topics in Neuroscience ■ NEURO 452 - Honors Research Project in Neuroscience

## Notes:

6 units from: List A or B (See Note 2)

- 1. Students following the Thesis stream are allowed to take a maximum of 3 units from NEURO 451 and NEURO 452. These units may count toward either the List A or B requirement, if an appropriate topic is selected.
- 2. 3 units are required from List A or B if NEURO 450, NEURO 451 and NEURO 452 are taken OR 6 units are required from List A or B if NEURO 450 and one of NEURO 451 or NEURO 452 are taken.
- 3. Some courses appear on more than one list. Students may not use the same course to satisfy more than one list requirement.