

Name: \_\_\_\_\_

Year: \_\_\_\_\_

Major(s): NEUROSCIENCE**NEW College Core Requirements**

Semester Taken	Requirement	Fulfilled by (Course)
	CIE-100	
	CIE-200	
<i>Three courses. One course satisfying each of the following learning goals. No more than two can be taken within a student's major department.</i>		
	<b>DN</b> Engage diversity and inequality	
	<b>GN</b> Examine global interconnections	
	<b>O</b> Consider obligations	
<i>One course satisfying each of the Ways of Asking requirements, except for the A requirement which can be fulfilled by one three- or four- credit course, or a total of four credits over multiple semesters. Although typically courses only will have one of these designations, a single course under question 3 can fulfill multiple question 3 or a combination of question 2 and 3 requirements.</i>		
	<b>A</b> Artistic/performance	
	<b>R</b> Deductive reasoning ( <i>was M Math</i> )	
	<b>H</b> Humanistic inquiry	
	<b>Q</b> Quantitative reasoning	STAT-141Q Statistics I ( <b>Q</b> )
	<b>S</b> Scientific inquiry/experimentation	BIO-101Q Issues in Ecology and Evolution ( <b>S</b> )
	<b>SS</b> Social scientific inquiry	NEUR/PSYC-330 and 332 ( <b>SS</b> )
<i>Two courses, both in the same language, satisfying the requirement:</i>		
	<b>L</b> Foreign Language	
	<b>L</b> Foreign Language	
<i>Linked Inquiry requirement - Satisfied by completing one of the following: Team-taught course or Paired courses (learning community)</i>		
	<b>LINQ</b> Linked Inquiry requirement	Neuroscience Major
<i>Satisfied by completing any course designated CCAP.</i>		
	<b>CCAP</b> Core Capstone	
<i>Experiential Learning Project (XLP) by completing independent research, an internship, study abroad, or civic engagement.</i>		
	<b>XLP</b> Experiential Learning Project	

**Neuroscience Major Requirements****Neuroscience Core (2 courses)**

Semester Completed	Course	Course Title (Designation)
	NEUR-100	Fundamentals of Neuroscience <i>taught every semester</i>
	NEUR-200Q	Research Methods and Techniques in Neuroscience ( <b>Q</b> ) <i>taught every spring</i>

**Interdisciplinary Foundation (8 courses)** Note: Students interested in a more traditional background to Neuroscience are encouraged to choose the Chemistry Foundation. Students interested in more mathematical aspects of Neuroscience (e.g., modeling, biomechanics, etc.) are encouraged to choose the Physics Foundation.

Semester Completed	Course	Course Title (Designation)
Biology Foundation (3 courses)		
	BIO-101Q	Issues in Ecology and Evolution ( <b>S</b> )
	BIO-102Q	Cell Biology ( <b>S</b> )
	BIO-201W	Genetics
Psychology Foundation (2 courses)		
	NEUR/PSYC-330	Behavioral Neuroscience ( <b>SS</b> ) <i>taught every fall—1 section in even years, 2 sections in odd years</i>
	NEUR/PSYC-332	Cognitive Neuroscience ( <b>SS</b> ) <i>taught every semester</i>
Chemistry or Physics Foundation (2 courses): select two Chemistry OR two Physics courses		
	<sup>^</sup> CHEM-107/107LQ <b>AND</b>	General Chemistry I ( <b>S</b> )
	<sup>^</sup> CHEM-108/108L	General Chemistry II
	<sup>^</sup> PHYS-111Q <b>AND</b>	General Physics I ( <b>S</b> )
	PHYS-112	General Physics II ( <b>S</b> )
Statistics Foundation (1 course)		
	STAT-141Q	Statistics I ( <b>R</b> )

**Advanced Courses (2 courses): at least one must be completed in junior or senior year.** Neuroscience majors fulfill the oral presentation and capstone requirement by completing two advanced research courses (one in biology and one in psychology). **Continued on page two**

Semester	Course	Course Title (Designation)
Biology (1 course): select one course		
	^NEUR/BIO-431W OR ^NEUR/BCMB/BIO-433W OR ^NEUR/BIO-435W	Cellular taught every fall OR Molecular taught odd-year spring semesters OR Developmental Neurobiology taught even-year spring semesters
Psychology (1 course): select one course		
	^NEUR/PSYC-430W OR ^432W	Advanced Research Methods in Behavioral taught every odd-year spring semesters (2025, 2027, and so on) OR Cognitive Neuroscience taught every fall and even-year spring semesters

**Breadth Courses (3 courses):** Neuroscience majors must take a minimum of three approved breadth courses. Only one four-credit, on-campus research course may be used to satisfy the breadth requirement (i.e., NEUR-481, 482, 491W, 492W). Students may not use courses to fulfill both the Breadth requirement as well as either the Interdisciplinary Foundation or Advanced Research Course credit. Students are encouraged to take advantage of the interdisciplinary nature of the neuroscience major and choose breadth courses from multiple departments.

Semester	Course	Course Title

Course	Course Title (Designation)	Course	Course Title (Designation)
NEUR/BIO-225	Glial Cell Biology	CS-170Q	Programming for the World around Us (S,R)
NEUR/PSYC-230	Sensation and Perception	CS-173	Introduction to Computer Science (Q, R)
NEUR-350	Special Topics in Neuroscience	DANC-340	The Thinking Body: Somatic Theory and Practice (A)
NEUR-382	Internship (XLP)	HEP/BIO-205	Human Anatomy & Physiology I (S if taken with 205L)
^NEUR/PSYC-430W	ARM in Behavioral Neuroscience (S)	HEP-351	Structural Kinesiology (S)
^NEUR/BIO-431W	Cellular Neurobiology	MATH-235	Linear Algebra (R)
^NEUR/PSYC-432W	ARM in Cognitive Neuroscience (S)	MATH/PHIL-260	Logic (R)
^NEUR/BCMB/BIO-433W	Molecular Neurobiology	PHIL-246	Biomedical Ethics (H, DN)
^NEUR/BIO-435W	Developmental Neurobiology (O, S)	PHIL-274	Philosophy of Mind (H)
NEUR/PSYC-464	Seminar: Psychopharmacology	PHIL-278	Theory of Knowledge (H)
		*PHIL-309	Advanced Topics in Philosophy (H; possibly DN, GN, O, or CCAP depending on topic.)
NEUR-481W or 482W	Independent Research in Neuroscience (XLP)	PHIL-364	Philosophy of Language (H)
NEUR-485 or 486	Off-campus Research (XLP)	PHIL-374	Consciousness and Thought (H)
NEUR-491W or 492W	Independent/Honors Research in Neuroscience (XLP)	@PHYS-111Q	General Physics I (S)
BCMB-351 or CHEM-347	Biochemistry I OR Fundamentals of Biochemistry	@PHYS-112Q	General Physics II (S)
BIO-305	Human Anatomy and Functional Morphology	PSYC-220	Mental Health and Abnormal Psychology
BIO-306 or BIO-346	Human Physiology OR Developmental Biology	PSYC/NEUR-230	Sensation and Perception
BIO/NEUR-333	Stem Cell Biology (O)	PSYC-232	Learning
*BIO-350	Selected Topics in Biology	PSYC-240	Lifespan Development
BIO-449W	Immunology	PSYC-266	Exploring Autism with Open Minds
BIO-459W	Virology	*PSYC-275	Special Topic in Psychology
+CHEM-107/107LQ	General Chemistry I and Lab (S, if taken with Chem 107LQ)	PSYC-320	Psychopathology and Psychotherapy
+CHEM 108/108L	General Chemistry II and Lab	PSYC-340	Child Development
MUS-326	Music Cognition (A)	PSYC-460	Seminar: Depression (CCAP)
CHEM 207/207L	Organic Chemistry I and Lab	*PSYC-475	Seminar: Special Topic in Psychology
CHEM 208/208L	Organic Chemistry II and Lab	STAT-243W	Biostatistics (R) Biostatistics (R)

**Notes:**

^A student taking NEUR/PSYC-430W, NEUR/BIO-431W, NEUR/PSYC-432W, NEUR/BCMB/BIO-433W, or NEUR/BIO-435W may not use the course to count as credit towards both the advanced research courses and breadth courses.

\*BIO-350, PHIL-309, \*PSYC-275, \*PSYC-475 may be used as a major elective when the topic(s) covered are related to Neuroscience. Approval of the Neuroscience Coordinator required.

+A student taking CHEM-107/107LQ or CHEM-108/108LQ may not use the course to count as credit towards both the chemistry foundation and breadth courses.

@A student taking PHYS-111Q/112Q may not use the course to count as credit towards both the physics foundation and breadth courses.

<b>Year Credits (128 needed)</b>	<b>Fall</b>	<b>Spring</b>	<b>Total</b>
Freshman Year			
Sophomore Year			
Junior Year			
Senior Year			