

4-Year Academic Plan: Bachelor of Science in Neuroscience

YEAR 1

FALL COURSES	CREDITS	MILESTONES
CH 111 Intro to Chem Principles	4	Preparation for CH 221Z
MATH 111Z Precalculus I: Functions	4	
WR 121Z College Composition I	4	
Core education course	4	Arts & Letters or Social Science
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
CH 221Z General Chemistry I	4	
CH 227Z & CH 217 General Chemistry Lab and Chemistry Tools	2	One year of either chemistry lab or physics lab is required
MATH 112Z Precalculus II: Trigonometry	4	
WR 123 College Composition III	4	Recommended instead of WR 122
TOTAL	14	

SPRING COURSES	CREDITS	MILESTONES
CH 222Z General Chemistry II	4	
CH 228Z & CH 218 General Chemistry Lab and Chemistry Tools	2	
MATH 246 Calculus for Bio Sciences	4	Recommended instead of MATH 251
PSY 201Z Mind & Brain	4	
TOTAL	14	

YEAR 2

FALL COURSES	CREDITS	MILESTONES
BI 221Z Principles of Biology I: Cells	5	
CH 223Z General Chemistry III	4	
CH 229Z & CH 219 General Chemistry Lab and Chemistry Tools	2	
HPHY 211 Medical Terminology	3	
TOTAL	14	

WINTER COURSES	CREDITS	MILESTONES
BI 222Z Principles of Biology II: Organisms	5	
HPHY 212 Scientific Invest. In Phys.	4	
Core education course	4	Arts & Letters or Social Science
Core education course	4	Arts & Letters or Social Science
TOTAL	17	

SPRING COURSES	CREDITS	MILESTONES
BI 214 General Biology IV: Biochemistry & Genetics	5	
PSY 302 Statistical Methods in Psych.	4	
Core education course	4	Arts & Letters or Social Science
Elective or Cultural Literacy course	4	
TOTAL	17	

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YEAR 3

FALL COURSES	CREDITS	MILESTONES
PSY 304 Biopsychology	4	Neuroscience core course
PHYS 201 General Physics I	4	One year of either chemistry or physics lab is required
Core education	4	Arts & Letters or Social Science
BI 401, HPHY 401, or PSY 401 Research	2	Eight credits of research or advanced skills courses are required
TOTAL	14	

WINTER COURSES	CREDITS	MILESTONES
HPHY 410 Neuroanatomy	5	Neuroscience core course
PHYS 202 General Physics II	4	
Core education course	4	Arts & Letters or Social Science
BI 401, HPHY 401, or PSY 401 Research	2	If not involved in research, take an advanced skills course
TOTAL	15	

SPRING COURSES	CREDITS	MILESTONES
BI 360 Neurobiology	4	Neuroscience core course
PHYS 203 General Physics III	4	
Upper-division NEUR elective	4	Example: PSY 449 Cognitive Neuroscience (PSY 303 pre-requisite waived for NEUR majors) or other Cognitive course
Core education course	4	Arts & Letters or Social Science
TOTAL	16	

YEAR 4

FALL COURSES	CREDITS	MILESTONES
Upper-division NEUR elective	4	Example: HPHY 436 Clinical Neuroscience or other Systems course
Advanced skills course	4	Example: BI 430 Analysis of Neural Data Consider BI 403, HPHY 403, or PSY 403 Thesis if involved in research
Core education course	4	Arts & Letters or Social Science
Elective or Cultural Literacy course	4	
TOTAL	16	

WINTER COURSES	CREDITS	MILESTONES
Upper-division NEUR elective	4	Example: BI 322 Cell Biology or other Mol/Cell/Devo course
Upper-division NEUR elective	4	Example: BI 461 Systems Neuroscience Four NEUR elective courses are required, at least three at the 400-level
Elective courses	7	Can include additional NEUR coursework
TOTAL	15	

SPRING COURSES	CREDITS	MILESTONES
Elective courses	12	Can include additional NEUR coursework
TOTAL	12	