NEUROSCIENCE CONCENTRATION CONTRACT

Name:	Class of:
Major(s):	
Concentration(s):	
The Neuroscience concentration consists of a minimum three electives (two with lab), and one 300-level sem	•
FOUNDATION COURSES (may be taken in either order	er):
Psychology 238: Biopsychology	
Neuroscience 239: Cellular/Molecular N	leuroscience
ELECTIVES (at least one from Category A: Neuroscien	nce Core)
1. Category A	
2. Category A or B*	
(*Note: if elective 2 is from Category B, it n	must be from a different department than elective 1)
3. Category A, B or C	
SEMINAR	
300-Level Seminar:	
This contract may be altered at any time by mutual c	consent.
Student signature	date
Program director signature	date

NEUROSCIENCE ELECTIVES

Category A: Core Neuroscience Courses

At least one category A elective is required to complete the concentration, but up to three can count towards the concentration.

BIO 247 Animal Physiology

BIO 386 Animal Behavior

BIO 387 Neuroethology

PSYCH 235 Sensation and Perception

PSYCH 236 Conditioning and Learning

PSYCH 237 Cognitive Psychology

PSYCH 395 Advanced Research Methods (when taught by neuroscience faculty)

Category B: Lab Elective Courses

At most two category B courses can count towards concentration. For a category B course to count as elective 2, it must be from a different department than your elective 1 course.

CH/BI 227 Integrated Chem/Bio III: Molecular and Cellular Biology

BIO 227 Cell Biology

BIO 233 Intermediate Genetics

BIO 243 Human Anatomy and Physiology: Organs and Organ Systems

BIO 364 Molecular Biology

BIO 372 Developmental Biology

CHEM 379 Biochemistry I and CHEM 373 Experimental Biochemistry Lab (0.25) (note: both courses are required)

PHYS 246 Electronics

Directed Undergraduate Research (396) and Independent Research (398) courses may count with pre-approval of the program director

Category C: Additional Electives

At most one category C course can count towards the concentration.

CHEM 379 Biochemistry I

CSCI 121 Principles of Computer Science

CSCI 125 Computer Science for Scientists and Mathematicians

CSCI 253 Algorithms and Data Structures

ECON 372 Behavioral Economics

ESTH 373 Motor Control and Learning

ESTH 375 Physiology of Exercise

ID 271 Topics in Interdisciplinary Studies (when topic is "Addiction from the Brain to the Social" or "Frontiers in Aging")

MATH 236 Mathematics of Biology

MATH 230 Differential Equations I

MSCS 264 Introduction to Data Science

PHIL 231 Philosophy of Mind

PHIL 244 Philosophy of Science

PHIL 250 Biomedical Ethics

PHIL 251 Science, Ethics, and Religion

PHYS 116 Light, Vision, and Art

PHYS 390 Selected Topics (if neuroscience focus)

PSYCH 239 Drugs, the Brain and Behavior

SCICN 217 The Cultural Context: Science and Society

STAT 272 Statistical Modeling

Other electives can count if approved by the program director

NEUROSCIENCE 300-LEVEL SEMINARS

BIO 385 The Neuron

BIO 391 Selected Topics (when topic is "Developmental Neurobiology, Animal Communications, or Computational Neuroscience")

PSYCH 336 Neuroscience of Addiction

PSYCH 337 Neurobiology of Learning and Memory

PSYCH 338 Neurobiology of Psychopathology

PSYCH 339 Cognitive Neuroscience

PSYCH 390 Issues in Psychology (when topic is "Stress and Development" or "Aging Brain and Cognition")

Other seminar courses can count if approved by the program director