

## Neuroscience and Behavior B.S. major requirements

### Prerequisites:

Intro Psych PSY 10000 (University Core 5 or AP credit)

### Required:

BIOS: Molecules to Ecosystems with lab (BIOS 10172/11174)  
NSBH Core 1: Systems Neuroscience (NSBH/SC 20450 and 21450)  
NSBH Core 2: Intro to Cognitive Neuroscience (NSBH/PSY 30520)  
NSBH Core 3: Molecular Neuroscience (NSBH/CHEM30301)  
Perspectives on the NSBH major (NSBH 20010)

### Foundational Science Electives, 3 courses (min. 9 credits)

BIOS: Big Questions w/ lab	BIOS 10171/11173
Genetics	BIOS 20250/21250 (taken together) or 20303
Cell Biology	BIOS 20241 or 30341
Biocomputing	BIOS 30318 with 32318
Biochemistry	CHEM 40420
Scientific computing	ACMS 20210
Intro Appl Math Methods I	ACMS 20550
Intro Dynamical Syst for Sci	MATH 20480
Intro to Math Reasoning	MATH 20630
Exp Psych II: Research Methods	PSY 30160

### One Additional Laboratory course (associated lecture required)

Genetics, cellular biology, physiology, or anatomy accepted

### Statistics, choose one:

Psychology statistics	PSY 30100
Biostatistics	BIOS 40411
Stats for Life Sciences	ACMS 20340

### \*Biological Science electives, 6 cr

Human Physiology	BIOS 30344
Animal Behavior	BIOS 30407
Embryology	BIOS 30301
Cellular Neurobiology	BIOS 30410
Advanced Neurobiology	BIOS 30338
Developmental Neuroscience	BIOS 40202
Human Gross Anatomy	BIOS 40339
Neuroinfectious Disease	BIOS 40203
Clinical Resrch Rare Neglct Dis	BIOS 40450
Intro to Mol and Med Pharma	BIOS 40436
Neuroendocrinology	NSBH 40300
Sex Diff in Brain & Behav	NSBH 40200
Topics in Physiology	BIOS 60571 (Li, Duffield)
Behavioral Ecology	BIOS 60552 (Archie)

### \*Psychological Science electives, 6 cr

Cognitive psych	PSY/NSBH 30400
Sensation perception	PSY/NSBH 30440
Learning and Memory	PSY/NSBH 30430
Abnormal psychology	PSY/NSBH 30310

Adolescent development	PSY/NSBH 30220
Intro to cognitive develop	PSY/NSBH 30253
Developmental psychology	PSY/NSBH 30200
Behavioral medicine	PSY/NSBH 30650
Neurodevel disorders	PSY/NSBH 30272
Cognitive Aging	PSY/NSBH 33528
Neurophys of stress	PSY/NSBH 43533
The sleeping brain	PSY/NSBH 43562
Intro to quant neuroscience	PSY/NSBH 40126
Food and the brain	PSY/NSBH 43357
Cognition & Emotion	PSY/NSBH 43308
Mental Health and Aging	PSY/NSBH 43230
Stress, Disease and Disorders	PSY/NSBH 43318
Health Psychology	PSY/NSBH 43360
Cognitive Development	PSY/NSBH 43250
Music in the Brain	PSY/NSBH 43230
Auditory Cognition	PSY/NSBH 43359
Cog Neurosci of Aging	PSY/NSBH 43528
Cognitive electrophysiology	PSY/NSBH 43525
Arts: Aesthetics & Creativity	PSY/NSBH 43521
Psychology of Addiction	PSY/NSBH 30365
NSBH Research Methods	PSY/NSBH 40451

**\*Additional Elective Requirements, 12 cr**

Free choice among bio and psych electives already listed above as well as additional coursework opportunities in other departments as listed below:

Fundamentals of Bio Anthro	ANTH 20201
Human Ethology	ANTH 20105 (Hum. Kind Unpl. ANTH 10209)
Advanced Human Ethology	ANTH 43310
Primate Behavior & Ecology	ANTH 35110
Evolution/Med Persp Fatherhood	ANTH 40120
Infancy: History, Dev, Evo	ANTH 30190
Comput & Mathematical Neurosci	ACMS 40740
Artificial Neural Networks	ACMS 40640
Environmental Exposures	CHEM/NSBH 40301
Neuropharmacology	CHEM/NSBH 40404
Chemistry in Service of Community	CHEM 30331
Brian Health Comm-Eng Research	CSC/NSBH 45000
Summer Service Learning Program: Plasticity and Compassion	CSC/NSBH 39339
Physics of the Brain	PHYS 40435
Philosophy of Mind	PHIL 43901
Minds, Brains, Persons	PHIL 20208

In addition to the above coursework, up to 6 credits of undergrad research w/approved faculty advisers can be earned toward Additional Electives

**\*Course offerings are updated regularly. This list was updated in Fall 2022.**