# Neuroscience and Behavior B.A. Major Requirements

**Total Credits: 63** 

**Prerequisite Credits: 23** 

**Major Credits: 40** 

### Prerequisites: (23 credits)

Intro Psych PSY 10000 or 2000 (University Core 5 or AP credit)

Calculus I MATH 10350 or 10550 (Can count towards the University Core 1)

General Chemistry I & Lab CHEM 10171/11171 (Can count towards the University Core 2) Organic Chemistry I & Lab CHEM 10172/11172(Can count towards the University Core 3)

BIOS: Big Questions (BIOS 10171) & Lab (BIOS 11173)

BIOS: Molecules to Ecosystems (BIOS 10172) & Lab (BIOS 11174)

### Required Core: (19 credits)

NSBH Core 1: Systems Neuroscience (NSBH/SC 20450 and 21450) & Lab

NSBH Core 2: Intro to Cognitive Neuroscience (NSBH/PSY 30520)

NSBH Core 3: Molecular Neuroscience (NSBH/CHEM30301)

Perspectives on the NSBH major (NSBH 20010)

Psychology Statistics (PSY 30100) PSY Research Methods (PSY 30160)

## Biological Science Electives: (2 courses/6 credits minimum)

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)407
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0410
)338
)202
)339
0203

Clinical Research Rare Neglct Diseases BIOS 40450/60565

Intro to Mol and Med Pharma BIOS 40436
Topics in Neuro: Neuroendocrinology BIOS 60572
Topics in Neuro: Sex Diff in Brain & Behav BIOS 60572

Topics in Physiology BIOS 60571 (Li, Duffield)
Behavioral Ecology BIOS 60552 (Archie)

# Psychological Science Electives: (2 courses/6 credits minimum)

Cognitive Psychology	PSY/NSBH 30400
Sensation perception	PSY/NSBH 30440
Learning and Memory	PSY/NSBH 30430
Abnormal psychology	PSY/NSBH 30310
Adolescent development	PSY/NSBH 30220
Developmental Psychology	PSY/NSBH 30200
Cognitive Aging	PSY/NSBH 33528
Neurodevelopmental disorders: ADHD	PSY/NSBH 43451
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
Language Development	PSY/NSBH 43251
Mental Health and Aging	PSY/NSBH 43230
Cognitive Development	PSY/NSBH 43250

### Additional Elective Requirements: (3 courses/9 credits minimum)

Free choice among bio and psych electives already listed above as well as additional coursework opportunities in other departments. Up to 6 credits of undergrad research w/approved faculty advisers can be earned toward Additional Electives.

Fundamentals of Bio Anthropology	ANTH 20201
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Human Ethology ANTH 20105 (Hum. Kind Unpl. ANTH 10209)

Advanced Human Ethology
ANTH 43310
Primate Behavior & Ecology
ANTH 35110
Evolution/Med Perspectives Fatherhood
Infancy: History, Development, Evolution
Computational & Mathematical Neuroscience
ACMS 40740
Artificial Neural Networks
ACMS 4XXXX

Neuropharmacology CHEM/NSBH 40404

Chemistry in Service of Community

Brain Health Comm-Eng Research

Physics of Cells

Philosophy of Mind

Minds, Brains, Persons

CHEM 30331

CSC/NSBH 45000

PHYS 50401

PHIL 43901

PHIL 20208

Summer Service Learning Program:

Plasticity and Compassion CSC/NSBH 33939

BA NSBH Major Sample Curriculum		
<u>First Year Fall</u>	First Year Spring	
BIOS: Big Questions & Lab	BIOS: Molecules to Ecosystems & Lab	
Gen Chem I & Lab	Orgo Chem I & Lab	
Intro Psychology		
Sophomore Year Fall	Sophomore Year Spring	
NSBH CR1: Systems Neuro & Lab	NSBH CR3: Mol Neuroscience	
NSBH CR2: Intro to Cog Neuro	Psychology Statistics	
Calculus I	Foundational Science Elective	
Perspectives on the NSBH Major		
Junior Year Fall	Junior Year Spring	
Psychological Science Elective (1)	Additional Elective (1)	
Biological Science Elective (1)	Biological Science Elective (2)	
Psychology Res Methods	Biological science Elective (2)	
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Senior Year Fall	Senior Year Spring	
Additional Elective (2)	Psychological Science Elective (2)	
	Additional Elective (3)	