

# BACHELOR OF SCIENCE IN NEUROSCIENCE AND BEHAVIOR

## University Requirements

	Credits	Course Numbers
Writing and Rhetoric	3	
History*	3	
Intro to Psychology (SS req)	3	PSY 10000 or 20000
Theology*	6	
Philosophy*	6	
Fine Arts or Literature*	3	
Mathematics	4	MATH 10350 or 10550 or 10850
Mathematics	4	MATH 10360 or 10560 or 10860
Gen Chem I & lab	4	CHEM 10171/11171 or 10181/11181
Organic Chem I & lab	4	CHEM 10172/11172 or 10182/11182

**University Requirements min Credits 40**

\* Students also fulfill University Seminar req

## College Requirements

	Credits	Course Numbers
Organic Chem II & lab	4	CHEM 20273/21273 or 20283/21283
Physics I & lab	4	PHYS 10310/11310 or 30210/31210 or 10411/11411
Physics II & lab	4	PHYS 10320/11320 or 20435/21435 or 30220/31220
Language (to intermediate level)		Could be completed by placement exam

**College Requirements min Credits 12**

## Major Requirements

### In Biological Sciences

	Credits	Course Numbers
Biol Sci I & lab	4	BIOS 10161/11161 or 20201/21201
Neurosci & Behavior with lab	4	SC 20450/21450
Third lab - open	1	Genetics, cell, physio, or anatomy accepted

### Foundational Science Electives

	Credits	Course Numbers
	<b>9</b>	<b>Choose at least 3 courses</b>
Biol Sci II & lab	4	BIOS 10162/11162 or 20202/21202
Genetics	3	BIOS 20250/21250 (taken together) or 20303
Cell Biology	3	BIOS 20241 or 30341
Biochemistry	3	CHEM 40420
Scientific computing	3.5	ACMS 20210
Intro Appl Math Methods I	3.5	ACMS 20550
Intro Dynamical Syst for Sci	3	MATH 20480
Intro to Math Reasoning	3	MATH 20630
Exp Psych II: Research Methods	4	PSY 30501

### Statistics

	Credits	Course Numbers
	3	BIOS 40411 or PSY 30100 or ACMS 20340 or ACMS 30440



# BS ELECTIVE REQUIREMENT CHOICES IN THE MAJOR

## Biological Sciences Elective Requirement

	Credits	Course Numbers
	<b>9</b>	<b>Choose at least 3</b>
Human Physiology	3	30344
Comparative Neurobiology	3	30339
Animal Behavior	3	30407
Embryology	3	30301
Cellular Neurobiology	3	30410
Developmental Neuroscience	3	40202
Human Gross Anatomy	3	40339
Clinical Resrch Rare Neglct Dis	3	40450/60565
Intro to Mol and Med Pharma	3	40436
Topics in Neuroscience	V	60572
Topics in Physiology	V	60571 (Li, Duffield)
Behavioral Ecology	V	60552 (Archie)

## Psychology Elective Requirements

	Credits	Course Numbers
	<b>9</b>	<b>Choose at least 3</b>
Intro to quant neuroscience	3	40126
Artificial intelligence	3	40675
Neurodevel disorders	3	30272
Cognitive psych	3	30400
Sensation perception	3	30440
Neurophys of stress	3	43533
The sleeping brain	3	43526
Learning and Memory	3	30430
Applied horm & beh	3	63540
Intro to cognitive neurosci	3	30520
Abnormal psychology	3	30310
Food and the brain	3	43357
Adolescent development	3	30220
Intro to biopsych	3	30501
Intro to cognitive develop	3	30253
Developmental psychology	3	30200
Behavioral medicine	3	30658
Cognition & Emotion	3	43308
Language Development	3	43251
Mental Health and Aging	3	43230
Stress, Disease and Disorders	3	43318
Health Psychology	3	43360
Cognitive Development	3	43250

## Additional Elective Requirement

	Credits	Course Numbers
	<b>12</b>	

Max 6 credits of undergrad research w/approved faculty advisers or Free choice among bio and psych electives already listed above (sect 4 only) or Additional electives in other departments:

Fundamentals of Bio Anthro	3	ANTH 20201
Human Ethology	3	ANTH 20105
Advanced Human Ethology	3	ANTH 43310
Primate Behavior & Ecology	3	ANTH 35110
Evolution/Med Persp Fatherhood	3	ANTH 40120
Infancy: History, Development, Evolution	3	ANTH 30190
Philosophy of Mind	3	PHIL 43901
Comput & Mathematical Neurosci	3.5	ACMS 40740
Minds, Brains, Persons	3	PHIL 20208

**Requirements Total Credits**

**103 BS Minimum credits = 124**

**Free Electives= 21**