

BS in Behavioral Neuroscience

An early commitment to the B.S. is desirable to meet all the requirements of this program.

College and university requirements for all majors (25 credit hours)

ENGL 1, 2	Composition and Literature (6)
	First Year Seminar (3)
	Social Sciences (8)
	Humanities (8)

Major Requirements

Required Major Courses (25 credits)	
BIOS 41	Biology Core I: Cellular and Molecular (3)
BIOS 42	Biology Core I: Cellular and Molecular Laboratory (1)
BIOS 115	Biology Core II: Genetics (3)
BIOS 116	Biology Core II: Genetics Laboratory (1)
BIOS 121	Biology Core III: Integrative and Comparative (3)
BIOS 122	Biology Core III: Integrative and Comparative Laboratory (1)
BIOS 276	Central Nervous System and Behavior (3)
BIOS 277	Experimental Neuroscience Laboratory (2) or
BIOS 278	Neurophysiology Laboratory or
BIOS 279	Experimental Molecular Neuroscience Laboratory
BIOS 382	Endocrinology of Behavior (3)

Additional biological sciences requirements for the B.S. (8-10 credits)

BIOS 371, 372	Elements of Biochemistry I & II (6)
BIOS 234	Comparative Vertebrate Anatomy (4) or
BIOS 377	Biochemistry Laboratory (3) or
BIOS 346	Molecular Genetics Laboratory (2). <i>If this course is selected, Molecular Genetics BIOS 345 must be taken as an elective; or</i>
BIOS 368	Cell Biology Laboratory (2). <i>If this course is elected, Cell Biology BIOS 367 must be taken as an elective;</i>
<i>Or one of the following which must be a different course than chosen for Required Major Courses:</i>	
BIOS 277	Experimental Neuroscience Laboratory
BIOS 278	Neurophysiology Laboratory
BIOS 279	Experimental Molecular Neuroscience Laboratory

Advanced Neuroscience Elective [Take 2 of the following (6 credits)]	
BIOS 365	Neurobiology of Sensory Systems (3)
BIOS 366	Diseases of the Nervous System (3)
BIOS 384	Eukaryotic Signal Transduction (3)
BIOS 385	Synapses, Plasticity and Learning (3)
BIOS 386	Genes and the Brain (3)
BIOS 332	Behavioral Neuroanatomy (3)
BIOS 323	Evolution of Development (3)

Math and Science Requirements for the B.S. (40-41 credits)	
MATH 21, 22	Calculus I, II (8) or
MATH 51, 52	Survey of Calculus I, II (7)
BIOS 130	Biostatistics (4)
CHM 30	Introduction to Chemical Principles (4) and
CHM 31	Chemical Equilibria in Aqueous Systems (4) or
CHM 40	Concepts, Models and Experiments I (4) and
CHM 41	Concepts, Models and Experiments II (4)
CHM 110, 112	Organic Chemistry I, II (6)
CHM 111, 113	Organic Chemistry Laboratory I, II (2)
PHY 10, 12	General Physics I and Laboratory (5) or
PHY 11, 12	Introductory Physics I and Laboratory (5)
PHY 13, 22	General Physics II and Laboratory (4) or
PHY 21, 22	Introductory Physics II and Laboratory (5)
PSYC 1	Introduction to Psychology (4)

Major Electives (6 credits)	
<i>Any 300-level BIOS course (except BIOS 347, 383, 387, 388, 391, or 393) not fulfilling another BNS requirement above.</i>	
PSYC 117	Cognitive Psychology (3)
PSYC 153	Personality (4)
PSYC 176	Mind and Brain (4)