

Neuroscience Undergraduate Major

Major Requirements

1. Neuroscience Core (66-72 units; satisfies the Life Sciences Core required for some majors in the College of Natural and Agricultural Sciences). Up to 12 units of upper-division life sciences courses (for this major, courses from the departments of Biochemistry, Biology, Cell Biology and Neuroscience, and Entomology) not being used to satisfy the core may be taken prior to completion of the core; permission from the program chair or the program chair's designate is required to take upper-division units in excess of these 12 units.

- a) BIOL 005A, BIOL 05LA, BIOL 005B, BIOL 005C (BIOL 002 and BIOL 003 may be substituted for BIOL 005A, BIOL 05LA, and BIOL 005B with advisor's approval.)
 b) PSYC 011 or STAT 040 or STAT 100A
 c) MATH 008B or MATH 009A or MATH 09HA, MATH 009B or MATH 09HB
 d) CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC (or CHEM 01HA and CHEM 1HLA, CHEM 01HB and CHEM 1HLB, CHEM 01HC and CHEM 1HLC); CHEM 112A, CHEM 112B, CHEM 112C
 e) PHYS 002A, PHYS 002B, PHYS 002C, PHYS 02LA, PHYS 02LB, PHYS 02LC; or PHYS 040A, PHYS 040B, PHYS 040C
 f) BCH 100 or BCH 110A

2. Upper-division requirements

- a) First Tier (14 units)
 (1) CBNS 106
 (2) CBNS 120/PSYC 120
 (3) CBNS 120L/PSYC 120L
 (4) CBNS 124/PSYC 124
 b) Second Tier (at least 12 units for the B.A. or at least 20 units for the B.S.)
 BIOL 178; CBNS 101, CBNS 116, CBNS 121/PSYC 121, CBNS 123, CBNS 125/PSYC 125, CBNS 126/PSYC 126, CBNS 127/PSYC 127; PSYC 129, PSYC 136
 c) Third Tier (additional units to reach a total of 36 units for the B.A. or 52 units for the B.S.)

Select from upper-division courses listed under Neuroscience Core, Second Tier above not used to

satisfy those requirements, and the additional courses listed below. The combined number of units taken under First Tier, Second Tier, and Third Tier must total either 36 if the B.A. is sought or 52 if the B.S. is sought.

BCH 102, BCH 110B, BCH 110C, BCH 120; BIOL 100/ENTM 100, BIOL 102, BIOL 105, BIOL 107A, BIOL 108, BIOL 109, BIOL 110, BIOL 151, BIOL 160, BIOL 161A, BIOL 161B; BIOL 162/ENTM 162; BIOL 171, BIOL 171L, BIOL 173/ENTM 173, BIOL 175, BIOL 185P; CBNS 169; up to 9 units from CBNS 191, CBNS 194, CBNS 197 and/or CBNS 199; CS 170; PHYS 139L; PSYC 132, PSYC 134, PSYC 135, ANTH 146/PSYC 146

Note No courses other than those listed may be used in the major unless specifically approved by the program chair or the program chair's designate.

Sample Program Bachelor of Arts

Freshman Year

Fall Winter Spring

CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC
 BIOL 005A, BIOL 05LA;
 BIOL 005B
 ENGL 001A, ENGL 001B, ENGL 001C
 MATH 008B or MATH 009A, MATH 009B
 Humanities/Social Sciences

Total Units 13 17 17

Sophomore Year

Fall Winter Spring

CHEM 112A, CHEM 112B, CHEM 112C
 BIOL 005C
 CBNS 106
 PSYC 001, PSYC 002
 General Physics
 General Physics Lab
 Foreign Language

Total Units 17 17 17

Junior Year

Fall Winter Spring

BCH 100 or BCH 110A
 PSYC 011
 Upper-division BIOL, CBNS, or PSYC
 Foreign Language
 Humanities/Social Sciences

Total Units 17 16 12

Senior Year

Fall Winter Spring

Upper-division BIOL, CBNS, or PSYC
 Humanities/Social Sciences
 Electives

Total Units 16 16 16

Bachelor of Science

Freshman Year

Fall Winter Spring

CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC
 MATH 008B or MATH 009A, MATH 009B
 BIOL 005A, BIOL 05LA;
 BIOL 005B
 ENGL 001A, ENGL 001B, ENGL 001C
 Humanities/Social Sciences

Total Units 13 17 17

Sophomore Year

Fall Winter Spring

CHEM 112A, CHEM 112B, CHEM 112C
 BIOL 005C
 CBNS 106
 PSYC 001, PSYC 002
 General Physics
 General Physics Lab
 Humanities/Social Sciences

Total Units 17 17 17

Junior Year

Fall Winter Spring

BCH 100 or BCH 110A
 PSYC 011
 Upper-division BIOL, CBNS, or PSYC
 Humanities/Social Sciences

Total Units 17 16 12

Senior Year

Fall Winter Spring

Upper-division BIOL, CBNS, or PSYC
 Electives

Total Units 16 16 16

Minor

A minor in Neuroscience is available. For more information on minor requirements, refer to the discussion of minors in the appropriate college section of the General Catalog.

1. First tier (14 units)
 a) CBNS 106
 b) CBNS 120/PSYC 120
 c) CBNS 120L/PSYC 120L
 d) CBNS 124/PSYC 124

2. Second Tier (6 units)

Select additional units from the list below so that the units from the First

Tier combined with the units from the
Second Tier equal at least 20.
BIOL 178; CBNS 101, CBNS 116,
CBNS 121/PSYC 121,
CBNS 125/PSYC 125,
CBNS 126/PSYC 126,
CBNS 127/PSYC 127; PSYC 129

Descriptions for all courses used in
the Neuroscience major and minor
may be found in the appropriate
department section.