EXECUTIVE COMMITTEES  
COLLEGE OF NATURAL AND AGRICULTURAL SCIENCES  
COLLEGE OF ARTS, HUMANITIES AND SOCIAL SCIENCES  
REPORT TO THE RIVERSIDE DIVISION  
MAY 25, 2021

To be adopted:

Proposed Changes to the B.A. and B.S. in Neuroscience

**PRESENT:**

**PROPOSED:**

**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.

2. Students must complete all required Life Science Core courses with a grade of “C-” or better and with a cumulative GPA in the courses of at least 2.0. Grades of “D” or “F” in two required courses, either separate courses or repetitions of the same course, are grounds for discontinuation from the major.

   a) BIOL 005A, BIOL 05LA or BIOL 020, 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 007A or MATH 009A or MATH 09HA; MATH 007B or 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 008A and CHEM 08LA or CHEM 08HA and CHEM 8HLA or CHEM 12A, CHEM 008B and CHEM 08LB or CHEM 08HB and CHEM 8HLB or CHEM 12B, CHEM 008C and CHEM 08LC or CHEM 08HC and CHEM 8HLC or CHEM 12C

e) PHYS 002A, PHYS 002B, PHYS 002C, PHYS 02LA, PHYS 02LB, PHYS 02LC; or PHYS 040A, PHYS 040B, PHYS 040C

c) PHYS 002A, PHYS 002B, PHYS 002C or PHYS 02HA, PHYS 02HB, PHYS 02HC; PHYS 02LA, PHYS 02LB, PHYS 02LC or PHYS 02HLA, PHYS 02HLB, PHYS 02HLC; or PHYS 040A, PHYS 040B, PHYS 040C or PHYS 040HA, PHYS 040HB, PHYS 040HC

f) BCH 100 or BCH 110A

g) PHYS 100 or PHYS 110A

3. Upper-division requirements

Students must complete all required First Tier and Second Tier courses with a grade of “C-” or better and with a cumulative GPA in the courses of at least 2.0. Grades of “D” or “F” in two required courses, either separate courses or repetitions of the same course, are grounds for discontinuation from the major.

a) First Tier (14 units)

(1) CBNS 106

[no change]

(2) CBNS 120/PSYC 120

[no change]

(3) CBNS 120L/PSYC 120L or CBNS 130L

[no change]

(4) CBNS 124/PSYC 124

[no change]

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 125/PSYC 125, CBNS 126/PSYC 126, CBNS 127/PSYC 127, CBNS 129, PSYC 112, PSYC 117, PSYC 129

[no change]

BIOL 178; CBNS 101, CBNS 116, CBNS 121/PSYC 121, PSYC 122, CBNS 125/PSYC 125, CBNS 126/PSYC 126, CBNS 127/PSYC 127, CBNS 129, PSYC 112, PSYC 117, PSYC 129

[no change]
c) Third Tier (additional units to reach a total of 36 units for the B.A. or 44 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 44 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 108, CBNS 150/ENTX 150, CBNS 165, CBNS 169; up to 9 units from CBNS 194, CBNS 197 and/or CBNS 199; CS 170; PHYS 139L; PSYC 115, PSYC 130, 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.

**Justification:**
PSYC 122 and 122L are new courses developed by Dr. Ilana Bennett on neuroimaging. 122 is a lecture course and 122L is a lab course. Since neuroimaging concepts and techniques are vital for modern neuroscience, these courses are important for our neuroscience students. Thus, the lecture course, 122, was deemed to be suitable as a tier 2 course. 122L, a lab course, involves experimental design, execution, analysis and communication. Thus, it was deemed to be acceptable as a replacement for the tier 1 lab class, CBNS 120L (or 130L). The inclusion of these courses reflects student interests and will also improve student progress through the major by providing more alternatives, particularly for the tier 1 lab requirement.

CBNS 130L and PSYC 123L are cross-listed and updating the requirements to reflect the change. Added the honors versions of the BCH and PHYS required courses.

**Approvals:**
Approved by the faculty of the Neuroscience Program: September 5, 2020
Approved by the faculty of the College of Natural and Agricultural Sciences: September 8, 2020
Approved by the Executive Committee of the College of Natural and Agricultural Sciences: February 9, 2020
Approved by the Executive Committee of the College of Humanities, Arts, and Social Sciences: February 24, 2021