

THE UNIVERSITY OF NORTH CAROLINA AT ASHEVILLE  
FACULTY SENATE

Senate Document Number 1419S  
Date of Senate Approval 01/31/19

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Statement of Faculty Senate Action:

**APC Document 9 (NEUR):**

**Update the narrative for the Neuroscience minor;  
Update the electives for the Neuroscience minor**

**Effective Date: Fall 2019**

**1. Delete:** On page 202, the entry for the **Minor in Neuroscience:**

The neuroscience minor helps students understand brain science from different disciplinary perspectives. Students must complete at least 22 hours for the minor distributed as follows: BIOL 136; CHEM 111, 132; NEUR 216; 1 hour from NEUR 480; and 9 hours selected from the list of elective courses below. (Note: prerequisites for some of the elective courses may increase the total number of hours.) Six of the elective hours must be at the 300-400 level and must be outside the student's major department. Appropriate courses may be substituted with the approval of the director of the Neuroscience minor.

University-wide minimum requirements for a minor: 1) one-half of the hours required for a minor must be completed in residence at UNC Asheville, to include at least 6 hours at the 300-400 level; 2) students must have a cumulative grade-point-average of at least 2.0 on minor courses taken at UNC Asheville.

BIOL	338	Mammalian Physiology (4)
BIOL	344	Cell Biology (4)
BIOL	360	Animal Behavior (4)
BIOL	444	Biological Biochemistry (4)
CHEM	233	Foundations of Inorganic Chemistry (General Chemistry II) (3)
CHEM	323	Foundations of Biochemistry (3)
CHEM	437	Biophysical Chemistry (3)
MATH	191	Calculus I (4)
MATH	192	Calculus II (4)
MATH	291	Calculus III (4)
MATH	452	Introduction to Mathematical Models (3)
NEUR	362	Advanced Neuroscience (4)
PSYC	100	Introductory Psychology (4)
PSYC	322	Sensation and Perception (4)
PSYC	362	Advanced Neuroscience (4)

**Add:** On page 202, in place of deleted entry:

The neuroscience minor provides students with the opportunity to understand the structure and function of the nervous system and the brain from a multidisciplinary perspective, including biological, chemical, psychological, physical, computational, legal, social, or clinical perspectives.

Students must complete at least 22 hours for the minor distributed as follows: BIOL 136; CHEM 111, 132; NEUR 216 or PSYC 216; 1 hour from NEUR 480; and at least 9 hours selected from the list of elective courses below (Note: prerequisites for some of the elective courses may increase the total number of hours). At least six of the elective hours must be at the 300-400 level and must be outside the student's major department (any NEUR courses cross-listed with a course in the student's major department cannot be used to fulfill these 6 elective hours). Appropriate courses may be substituted with the approval of the director of the Neuroscience minor.

University-wide minimum requirements for a minor: 1) one-half of the hours required for a minor must be completed in residence at UNC Asheville, to include at least 6 hours at the 300-400 level; 2) students must have a cumulative grade-point-average of at least 2.0 on minor courses taken at UNC Asheville.

BIOL	328	Human Anatomy and Histology (4)
BIOL	338	Mammalian Physiology (4)
BIOL	344	Cell Biology (4)
BIOL	360	Animal Behavior (4)
BIOL	444	Biological Biochemistry (4)
CHEM	231	Organic Chemistry (3)
CHEM	233	Foundations of Inorganic Chemistry (General Chemistry II) (3)
CHEM	323	Foundations of Biochemistry (3)
CHEM	437	Biophysical Chemistry (3)
HWP	224	Mental and Emotional Health (3)
HWP	294	Human Physiology (4)
HWP	315	Stress Management and Optimal Performance (3)
MATH	191	Calculus I (4)
MATH	192	Calculus II (4)
MATH	291	Calculus III (4)
MATH	452	Introduction to Mathematical Models (3)
NEUR	362	Advanced Neuroscience (4)
NEUR	410	Advanced Topics in Neuroscience (4)
PSYC	100	Introductory Psychology (4)
PSYC	322	Sensation and Perception (4)
PSYC	362	Advanced Neuroscience (4)

**Impact:** Several courses have been added to the elective list for Neuroscience minors. Three of the added courses are 200 level courses (CHEM 231, HWP 224, HWP 294). Health and Wellness Promotion courses HWP 224 and 294 cover significant neuroscience topics as part the course curriculum, which makes them a great fit as NEUR electives. CHEM 231 was added as an available elective, as material in this course aids student's understanding of molecular neuroscience topics in upper-level courses. The Neuroscience minor requirements include 3 credit hours of an approved course; most students find this requirement is filled through 100 or 200 level courses within their home department. As such, we do not anticipate any impact on course enrollments in the 3 200 level courses added to the list of available

NEUR electives. Rather, adding these courses will allow students to use relevant courses they are already taking towards the Neuroscience minor. The chairs of both Chemistry and Health and Wellness promotion approved of the addition of these courses to the catalog as NEUR electives and did not anticipate any major impact from this catalog change.

Another requirement of the Neuroscience minor is that students choose 2 300-400 level courses from the list of available electives that are outside their declared major. Two courses have been added to that elective list here – BIOL 328 and HWP 315. BIOL 328 was recently added to the catalog and has been included in the NEUR elective list as it covers material on the peripheral nervous system. The instructor for the course Chris Nicolay was supportive of this addition, especially considering that many other NEUR courses on campus do not cover the peripheral nervous system in great depth, whereas this course does. The department of Biology and chair David Clarke are all in concurrence with this addition. Because this is a new course to Biology as well, we do not know how NEUR enrollments will impact this course. However, there are many other available BIOL courses in the NEUR elective list, so we do not anticipate a big overall change in enrollments and related course needs for the Biology department. HWP 315 has previously been offered as HWP 373, Stress Management and Biofeedback, which has been an available NEUR elective for students when offered. As such, we do not anticipate an impact on the student enrollments for this course as a result of listing it as an available elective.

**Rationale:** Changes are made to more clearly describe the discipline of Neuroscience. A sentence was added to clarify that if a NEUR course is cross-listed as a course within a student's major department, they cannot take that course to fulfill the 300-400 level NEUR elective. This is because the 6 elective hours have to be taken outside of the student's major. As of right now, this language only applies to one cross-listed 300-level Neuroscience course – PSYC/NEUR 362 Advanced Neuroscience. As such, this explicit change only applies to Psychology majors who were previously able to take NEUR 362 for minor credit, even though the course was offered within their major department, which goes against the outside major requirement that is in place to ensure students are getting exposed to different disciplinary dimensions of Neuroscience, an important hallmark of this interdisciplinary minor program. Students have been aware that the program was going to put this language in place for a few semesters now and have been able to prepare their course schedules in keeping with this clarification on the elective policy. These updates to the catalog allow students to get a clearer understanding of what the Neuroscience minor consists of and which classes they can take towards the minor.