

B.S. in Neuroscience

REPRESENTATIVE EIGHT-TERM PLAN (Students entering Su 2018 and later)

This representative eight-term plan is designed to allow students to complete a Breadth Elective Specialty that qualifies for a minor in biochemistry, biology, chemistry, computer science, mathematics, physiology, physics, or psychology. This plan also supports completion of an engineering track. Students who are interested in completing a pre-health curriculum, which includes a full year of English, Mathematics, Biology, Physics, General Chemistry and Organic Chemistry, and one semester of Organic Lab, are encouraged to consider the Health and Medical Sciences Breadth Elective Specialization/minor (see next eight-term plan). However, pre-health students may complete any of the aforementioned minors by taking the pre-health biology and chemistry courses as Free Electives.

<p>First Year</p> <p><i>Fall semester</i> APPH 1040/1050 (2 cr.) CHEM 1211K or 1310 (4 cr., area F) ENGL 1101 (3 cr., area A) MATH 1551 (2 cr., area D) PSYC 1101 (3 cr., area E) GT1000 (1 cr.)</p> <p style="text-align: right;"><i>Total: 15 cr.</i></p> <p><i>Spring semester</i> BIOL 1510 (4 cr., area F) CHEM 1315 (3 cr., area F)^a MATH 1552 or 1555 (4 cr.) NEUR 2001 (4 cr., Area F)</p> <p style="text-align: right;"><i>Total: 15 cr.</i></p>	<p>Third Year</p> <p><i>Fall semester</i> CS requirement (3 cr., area B) Humanities elective (3 cr., area C) APPH 4400 (3 cr.) Breadth elective (3 cr.) Free elective (3 cr.)^b</p> <p style="text-align: right;"><i>Total: 15 cr.</i></p> <p><i>Spring semester</i> Social Science elective (3 cr., area E) NEURO 3010 (3 cr.) Neuroscience elective (4 cr.) Breadth elective (3 cr.) Free elective (3 cr.)^b</p> <p style="text-align: right;"><i>Total: 16 cr.</i></p>
<p>Second Year</p> <p><i>Fall semester</i> PHYS 2211K (4 cr., area D) CHEM 3511 (3 cr.)^b ENGL 1102 (3 cr., area A) MATH 1553 (2 cr., area D) PSYC 4020 (3 cr.)</p> <p style="text-align: right;"><i>Total: 15 cr.</i></p> <p><i>Spring semester</i> Social Science elective (3 cr., area E) PHYS 2212K (4 cr., area D) NEURO 3001 (3 cr.) Breadth elective (3 cr.) Free elective (3 cr.)</p> <p style="text-align: right;"><i>Total: 16 cr.</i></p>	<p>Fourth Year</p> <p><i>Fall semester</i> Humanities elective (3 cr., area C) Neuroscience elective (4 cr.) Neuro elective - NEUR 4001 or 4699^c (4 cr.) Breadth elective (3 cr.) Free elective (2 cr.)</p> <p style="text-align: right;"><i>Total: 15 cr.</i></p> <p><i>Spring semester</i> Social Science elective (3 cr., area E) Neuroscience elective (6 cr.) Breadth elective (3 cr.) Free elective (3 cr.)</p> <p style="text-align: right;"><i>Total: 15 cr.</i></p>

^a CHEM 2311 is an approved substitution for CHEM 1315 to fulfil Area F only for students who complete a full year of organic chemistry (i.e., both CHEM 2311 and CHEM 2312 must be completed). CHEM 2312 may be applied as part of a Breadth Elective Specialization or as a Free Elective. CHEM 2311 has an additional prerequisite: CHEM 1212K, which may be taken as a Breadth Elective (in the HMS specialization) or as a Free Elective.

^b CHEM 4512 is an approved substitution for a student who is completing a full year of biochemistry (i.e., both CHEM 4511 and 4512 must be completed) as part of a Breadth Elective Specialization or as Free Electives. CHEM 4511 has an additional prerequisite: CHEM 2312, which may be taken as Breadth Elective or Free Elective.

^c NEUR 4699 (4 cr) may be used in place of NEUR 4001 only if the student completes the Georgia Tech Research Option. This option requires an additional 5 cr. of NEUR 2699 or 4699. 3 cr. of NEUR 4699 may be applied to "Additional Neuroscience Electives", the remaining 2 cr. will be applied to Free Electives), along with both LMC 4701 (1 cr.) and LMC 4703 (1 cr.), or equivalent, as free electives. A student may request, via their academic advisor to the Neuroscience Undergraduate Curriculum Committee, to have any other XXXX 4699 courses to be considered equivalent to NEUR 4699 when the project is clearly relates to neuroscience.