Neuroscience, B.S.

Academic Plans

Four-Year Graduation Plan

The following checkpoints list the minimum requirements students must complete by certain semesters in order to stay on the University's Four-Year Graduation Plan. Courses in the major are those required to complete the major; they may be offered by departments other than the major department.


Before the fifth semester begins: PHYS:1511 College Physics I or PHYS:1611 Introductory Physics I, PSY:2811 Research Methods and Data Analysis in Psychology I, PHYS:2812 Research Methods and Data Analysis in Psychology II, and PSY:2975 Introduction to Cognitive Neuroscience

Before the seventh semester begins: BIOC:3110 Biochemistry, or BIOC:3120 Biochemistry and Molecular Biology I and BIOC:3130 Biochemistry and Molecular Biology II; BIOC:3253 Neurobiology I; BIO:3244 Animal Behavior (with lab) or BIOL:3656 Neurobiology Laboratory; BIOC:3254 Neurobiology II; and PHYS:1512 College Physics II or PHYS:1612 Introductory Physics II

Before the eighth semester begins: two required neuroscience electives

During the eighth semester: one required neuroscience elective, enrollment in all remaining coursework in the major, all remaining GE CLAS Core courses, and a sufficient number of semester hours to graduate

Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

Neuroscience, B.S.

Course Title Hours
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First Year Fall
CHEM:1110 Principles of Chemistry I a, b 4
PSY:1001 Elementary Psychology a, c 3
PSY:2701 Introduction to Behavioral Neuroscience 4
RHET:1030 or ENGL:1200 Rhetoric or The Interpretation of Literature 3 - 4
CSI:1600 Success at Iowa 2

Hours 16-17

Spring
BIOL:1411 Foundations of Biology a 4
CHEM:1120 Principles of Chemistry II a 4
MATH:1460 Calculus for the Biological Sciences 4
RHET:1030 or ENGL:1200 Rhetoric or The Interpretation of Literature 3 - 4

Hours 15-16

Second Year Fall
PSY:2811 Research Methods and Data Analysis in Psychology I 3
PSY:2975 Introduction to Cognitive Neuroscience 3
PHYS:1511 College Physics I 4
GE CLAS Core: World Languages First Level Proficiency or elective course 4 - 5

Hours 14-15

Spring
PSY:2812 Research Methods and Data Analysis in Psychology II 3
PHYS:1512 College Physics II 4
BIOL:3253 Neurobiology I or Biochemistry 3
GE CLAS Core: World Languages Second Level Proficiency or elective course 4 - 5

Hours 14-15

Third Year Fall
BIOL:3253 Neurobiology I 4
Major: neuroscience elective I 3 - 4
BIOL:3210 or BIOL:3110 Biochemistry and Molecular Biology I or Biochemistry 3
GE CLAS Core: World Languages Second Level Proficiency or elective course 4 - 5

Hours 14-16

Spring
BIOL:3254 Neurobiology II 4
Major: neuroscience elective II 3 - 4
GE CLAS Core: Diversity and Inclusion 3
GE CLAS Core: World Languages Fourth Level Proficiency or elective course 4 - 5

Hours 14-16

Fourth Year Fall
Major: neuroscience elective III 3 - 4
Major: neuroscience lab course or neuroscience elective IV 3 - 5
GE CLAS Core: International and Global Issues 3
GE CLAS Core: Values and Culture 3

Hours 12-15

Spring
Major: neuroscience lab course or neuroscience elective IV 3 - 4
GE CLAS Core: Historical Perspectives 3
GE CLAS Core: Literary, Visual, and Performing Arts 3
Elective course 3

Hours 3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) i

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<thead>
<tr>
<th>Hours</th>
<th>12-13</th>
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<tbody>
<tr>
<td>Total Hours</td>
<td>111-123</td>
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a. Fulfills a major requirement and may fulfill a GE requirement.
b. Enrollment in chemistry courses requires completion of a placement exam.
c. It is strongly recommended that neuroscience majors take this course as their GE CLAS Core: Social Science requirement and that they do so in their first semester.
d. Enrollment in math courses requires completion of a placement exam.
e. Students who have completed four years of a single language in high school have satisfied the GE CLAS Core World Languages requirement. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course.
f. If BIOL:3120 is taken, students will also have to complete BIOL:3130 to meet this requirement.
g. GE CLAS Core courses may be completed in any order unless used as a prerequisite for another course. Students should consult with an advisor about the best sequencing of courses.
h. Students may use elective courses to earn credit towards the total s.h. required for graduation or to complete a double major, minors, or certificates.
i. Please see Academic Calendar, Office of the Registrar website for current degree application deadlines. Students should apply for a degree for the session in which all requirements will be met. For any questions on appropriate timing, contact your academic advisor or Graduation Services.