Neuroscience, BS

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, PSY:2812 Research Methods and Data Analysis in Psychology II, and PSY:2975 Introduction to Cognitive Neuroscience.

Before the seventh semester begins: BMB:3110 Biochemistry, or BMB:3120 Biochemistry and Molecular Biology I and BMB:3130 Biochemistry and Molecular Biology II; BIOL:3253 Neurobiology I; one of the four approved laboratory courses; 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, BS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL:1411</td>
<td>Foundations of Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM:1120</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>RHET:1030 or ENGL:1200</td>
<td>Rhetoric or The Interpretation of Literature</td>
<td>3 - 4</td>
</tr>
<tr>
<td>MATH:1460</td>
<td>Calculus for the Biological Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PSY:1001</td>
<td>Elementary Psychology b</td>
<td>3</td>
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<tr>
<td>PSY:2701</td>
<td>Introduction to Behavioral Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>CHEM:1110</td>
<td>Principles of Chemistry I c</td>
<td>4</td>
</tr>
<tr>
<td>RHET:1030 or ENGL:1200</td>
<td>Rhetoric or The Interpretation of Literature</td>
<td>3 - 4</td>
</tr>
<tr>
<td>CSI:1600</td>
<td>Success at Iowa</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Hours</td>
<td>16-17</td>
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</table>

Spring

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

Hours 14-15

Fall

PSY:2812 Research Methods and Data Analysis in Psychology II 3
BMB:3110 Biochemistry or BMB:3120 Biochemistry and Molecular Biology I 3
PHYS:1512 College Physics II 4
GE CLAS Core: World Languages Second Level Proficiency or elective course e

Hours 14-15

Fall

BIOL:3253 Neurobiology I 4
BMB:3130 Biochemistry and Molecular Biology II 3
Major: neuroscience elective I g 3 - 4
GE CLAS Core: World Languages Third Level Proficiency or elective course e

Hours 14-16

Fall

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

Hours 14-16

Fall

Major: neuroscience elective III g 3 - 4
Major: neuroscience lab course g 4
GE CLAS Core: International and Global Issues h 3
GE CLAS Core: Values and Culture h 3

Hours 13-14

Spring

BIOL:3254 Neurobiology II 4
Major: neuroscience elective IV g 3 - 4
GE CLAS Core: Historical Perspectives h 3
GE CLAS Core: Literary, Visual, and Performing Arts h 3

Elective course l 3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall).

<table>
<thead>
<tr>
<th>Hours</th>
<th>12-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hours</td>
<td>112-122</td>
</tr>
</tbody>
</table>

a) Sustainability must be completed by choosing a course that has been approved for Sustainability AND for one of these General Education areas: Natural Sciences; Quantitative and Formal Reasoning; Social Sciences; Historical Perspectives; International and Global Issues; Literary, Visual, and Performing Arts; or Values and Culture.

b) 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.

c) Enrollment in chemistry courses requires completion of a placement exam.

d) Enrollment in math courses requires completion of a placement exam.

e) Students who have completed four levels of a single language or two levels of two different languages in high school or college have satisfied the GE CLAS Core World Languages requirement. Students who have completed three levels of a single language may complete a fourth-level course in the same language or may choose an approved World Language and Cultural Exploration course. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course. Contact your academic advisor or CLAS Undergraduate Programs Office with questions concerning the World Languages requirement.

f) If BMB:3120 is taken, students will also have to complete BMB:3130 to meet this requirement.

g) See General Catalog for a list of courses.

h) 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.

i) 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.

j) 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 Degree Services.