

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 third semester begins: BIOL:1411 Foundations of Biology, CHEM:1110 Principles of Chemistry I, CHEM:1120 Principles of Chemistry II, MATH:1460 Calculus for the Biological Sciences (can also be taken during the third semester) or MATH:1550 Engineering Calculus I or MATH:1850 Calculus I, and PSY:2701 Introduction to Behavioral Neuroscience.

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: one of the five approved laboratory courses and PHYS:1512 College Physics II or PHYS:1612 Introductory Physics II.

Before the eighth semester begins: BIOL:3253 Neurobiology I and three required neuroscience electives.

During the eighth semester: BIOL:3254 Neurobiology II, remaining required neuroscience electives, 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

Course	Title	Hours
Academic Career		
Any Semester		
GE CLAS Core: Sustainability ^a		
Hours		0
First Year		
Fall		
PSY:1001	Elementary Psychology ^b	3
PSY:2701	Introduction to Behavioral Neuroscience	4
CHEM:1110	Principles of Chemistry I ^c	4
RHET:1030 or ENGL:1200	Rhetoric: Writing and Communication or Interpreting Literature	3 - 4
CSI:1600	Success at Iowa	1
Hours		15-16
Spring		
BIOL:1411	Foundations of Biology	4

CHEM:1120	Principles of Chemistry II	4
RHET:1030 or ENGL:1200	Rhetoric: Writing and Communication or Interpreting Literature	3 - 4
GE CLAS Core: Values and Society ^d		3

Hours 14-15

Second Year

Fall		
PSY:2811	Research Methods and Data Analysis in Psychology I	3
PSY:2975	Introduction to Cognitive Neuroscience	3
MATH:1460	Calculus for the Biological Sciences ^e	4

GE CLAS Core: World Languages First Level Proficiency or elective course ^f		4 - 5
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Hours 14-15

Spring

PHYS:1511	College Physics I	4
PSY:2812	Research Methods and Data Analysis in Psychology II	3

Major: neuroscience elective ^g		3 - 4
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GE CLAS Core: World Languages Second Level Proficiency or elective course ^f		4 - 5
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Elective course ^h		3
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Hours 17-19

Third Year

Fall		
PHYS:1512	College Physics II	4
Major: neuroscience elective ^g		3 - 4
GE CLAS Core: Historical Perspectives ^d		3
GE CLAS Core: World Languages Third Level Proficiency or elective course ^f		4 - 5
Elective course ^h		3

Hours 17-19

Spring

Major: neuroscience lab course ^g		4
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Major: neuroscience elective ^g		3 - 4
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GE CLAS Core: Understanding Cultural Perspectives ^d		3
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GE CLAS Core: World Languages Fourth Level Proficiency or elective course ^f		4 - 5
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Hours 14-16

Fourth Year

Fall		
BIOL:3253	Neurobiology I	4
Major: neuroscience elective ^g		3 - 4
Major: neuroscience elective ^g		3 - 4
GE CLAS Core: International and Global Issues ^d		3
Elective course ^h		3

Hours 16-18

Spring

BIOL:3254	Neurobiology II	4
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Major: neuroscience elective ^g		3 - 4
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Major: neuroscience elective ^g		3 - 4
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GE CLAS Core: Literary, Visual, and Performing Arts ^d		3
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Elective course ^h		3
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Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) ⁱ

Hours	16-18
Total Hours	123-136

- 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 or Formal Reasoning; Social Sciences; Historical Perspectives; International and Global Issues; Literary, Visual, and Performing Arts; or Values and Society.
- 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 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.
- e Enrollment in math courses requires completion of a placement exam.
- f 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.
- g See General Catalog for a list 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, on 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.