Neuroscience, BS

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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 or MATH:1550 Engineering Mathematics I: Single Variable Calculus 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: 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

Title

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.

Hours

Neuroscience, BS

Course

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 or The Interpretation of Literature	3 - 4
CSI:1600	Success at Iowa	2
	Hours	16-17

Spring BIOL:1411 Foundations of Biology 4 CHEM:1120 Principles of Chemistry II 4 ENGL:1200 The Interpretation of Literature 3 - 4or RHET:1030 or Rhetoric MATH:1460 Çalculus for the Biological Sciences 4 **Hours** 15-16 **Second Year** Fall PSY:2811 3 Research Methods and Data Analysis in Psychology I PSY:2975 Introduction to Cognitive 3 Neuroscience PHYS:1511 College Physics I 4 GE CLAS Core: World Languages First Level 4 - 5 Proficiency or elective course 14-15 **Hours** Spring PSY:2812 Research Methods and Data 3 Analysis in Psychology II BMB:3120 Biochemistry and Molecular 3 Biology I or BMB:3110 or Biochemistry PHYS:1512 College Physics II 4 GE CLAS Core: World Languages Second Level 4 - 5 Proficiency or elective course 14-15 Hours **Third Year** Fall BIOI:3253 4 Neurobiology I BMB:3130 Biochemistry and Molecular 3 Biology II Major: neuroscience elective I 3 - 4GE CLAS Core: World Languages Third Level 4 - 5 Proficiency or elective course 14-16 Hours **Spring** BIOL:3254 Neurobiology II 4 Major: neuroscience elective II 3 - 4GE CLAS Core: Diversity and Inclusion ⁹ 3 GE CLAS Core: World Languages Fourth Level 4 - 5 Proficiency or elective course 14-16 Hours **Fourth Year** Fall Major: neuroscience elective III 3 - 4Major: neuroscience lab course or neuroscience 3 - 5 elective IV GE CLAS Core: International and Global Issues ⁹ 3 GE CLAS Core: Values and Culture ⁹ 3 12-15 **Hours** Spring 3 - 4 Major: neuroscience lab course or neuroscience elective IV GE CLAS Core: Historical Perspectives ^g 3 GE CLAS Core: Literary, Visual, and Performing Arts 3 Elective course h 3

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

Hours 12-13 111-123

Total Hours

- 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 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 BMB:3120 is taken, students will also have to complete BMB: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.