

Undergraduate Neuroscience

Major/Minor Requirements Worksheet

Bachelor of Science

(18 courses total; 8 pre-/co-requisites and 10 courses in major, with 9 at 100 level or above)

Pre-/Co-requisites (total of 8 courses required)

- MATH _____ two terms of **mathematics** through MATH 32 (e.g., MATH 31-32) or equivalent (MATH 41L)
- MATH _____
- PHY _____ two terms of **physics** or equivalent (e.g., PHY 41L-42L, 53L-54L or 61L-62L)
- PHY _____
- CHEM _____ sufficient proficiency in **general chemistry** to take organic chemistry (normally two terms or equivalent); for students who have already taken chemistry, this requirement is satisfied by CHEM 21L-22L or CHEM 23L
- CHEM _____
- or
- CHEM 31L one term of general chemistry (CHEM 31L) and one term of **programming** (EGR 53L, COMPSCI 6, or equivalent) or one of the following: CHEM 32L, BIOCHEM 227 (**biochemistry**), or BIOL 118 (**molecular biology**)
- and
- { EGR 53L
COMPSCI 6
or
CHEM 32L
BIOCHEM 227
BIOL 118
- CHEM _____ one term or equivalent of **organic chemistry**
- BIOL _____ Principles of Biology (BIOL 25L) or equivalent **biology** (e.g., BIOL 19)

Courses in Major (minimum of 10 courses required)

Gateway course (one of the following three courses):

- NEUROSCI 093FCS *Neuroeconomics: The Neurobiology of Decision Making* (PSY 93FCS/NEUROBIO 95FCS)
- NEUROSCI 095FCS *Neurobiology of Mind* (PSY 95FCS/NEUROBIO 93FCS)
- NEUROSCI 101 *Biological Basis of Behavior* (PSY 101(RE); formerly PSY 91)

Core Courses (three courses that may be taken in any sequence):

- NEUROSCI 115 *Cellular and Molecular Neurobiology* (BIOL 115)
- NEUROSCI 114 *Fundamentals of Neuroscience* (PSY 135/BIO 154)
- { NEUROSCI 112 *Introduction to Cognitive Neuroscience** (PSY 112)
or
NEUROSCI 116 *Brain and Behavior** (PSY 136)
(*Substitutions possible with permission of the DUS)

Statistics (one course):

- PSY 117 100's level Statistics course
- STA 101
- STA 102
- STA 102b
- STA 103
- STA 113

Electives (four courses):

- _____ any four courses from the list of electives (see detailed list of courses). One must be a seminar or independent study. Up to two semesters of independent study may count. One may be from the list of "allied" electives; more, or other courses, may be allowed with permission of the DUS.
- _____
- _____
- _____

Capstone experience (one of the following):

- _____ Laboratory/methods course in neuroscience (see list of electives)
- _____ Independent study (2 terms required for capstone credit; one of these may also be counted towards the total number of electives)
- NEUROSCI 196S *Current Research in Neuroscience* (to be developed)

Bachelor of Arts

(16 courses total)

- 10 courses in major (9 at 100 level or above) (same as B.S. requirements)
- one must be *Ethics in Neuroscience, Philosophy of Mind, or History of Neuroscience*
- 6 pre-/co-requisites (same as B.S. requirements, except Organic Chemistry is not required and only one term of Mathematics is required)

Minor in Neuroscience

(≥ 5 courses total)

- minimum of 5 courses from electives, core courses, and gateway courses; allied courses do not count except by permission of the DUS
- at least 2 courses must be from the core or gateway offerings (maximum one gateway course)
- 4 courses must be at 100+ level