# Undergraduate Neuroscience 

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Major/Minor Requirements Worksheet
Expected Grad. Term $\qquad$
Student ID $\qquad$
Checked Co-requisites on back:
for Classes matriculating 2016-2017
Bachelor of Science (BS)
[17 courses: 7 co-requisites +10 Neuroscience courses (8 at 200-level or above)
Bachelor of Arts (AB)
[15 courses: 5 co-requisites + 10 Neuroscience courses (8 at 200-level or above)

Bachelor of Science for BME majors (BS2)
[17 courses: 7 co-requisites +10 Neuroscience courses (8 at 200-level or above; BME 301L/NEUROSCI 301L is required)

## Co-Requisite Courses [go to back]

## Neuroscience Courses

## Five Foundational Courses <br> Complete these courses before senior year.

## Use Checkboxes for planning:

## Gateway (choose 1 required course)

NEUROSCI 101 Biological Bases of Behavior NEUROSCI 102 Biological Bases of Behavior (TEAM)
## Statistics (choose 1 required course)

STA 101 Data Analysis and Statistical InferenceSTA 102 Introductory Biostatistics
STA 111 Probability and Statistical Inference
STA 130 Probability and Statistics in Engineering
STA 230 Probability
BIOL 204 Biological Data Analysis
PSY 201 Introduction to Statistical Methods in Psychology
Core Courses (3 required courses)
Choose one (or take both with one counting as elective):
NEUROSCI 201 Fundamentals of Neuroscience; OR
NEUROSCI 202 Medical Neuroscience (summer only)
Choose one (or take both with one counting as elective):
$\square$ NEUROSCI 211 Brain and Behavior; OR
$\square$ NEUROSCI 212 Intro to Cognitive Neuroscience
Required of all majors (take other 2 core courses first):
NEUROSCI 223 Cellular and Molecular Neurobiology

For both the $A B \& B S$ degree plans, no more than TWO of the 10 courses required for the Major (not including corequisites) may be used to satisfy another academic plan.

## Five Electives

May be completed concurrently with Core Courses (except when specific pre-requisites apply; see course descriptions).

- AB majors must take ONE or more Intersection Courses (see website for complete list and details)
- BS majors may only count ONE intersection course
- ONE elective must be a 350 -level or higher seminar
- ONE elective must be a Methods or Laboratory Course (we recommend taking this early in your program of study)
- Must complete TWO or more courses in Neuroscience before proposing NEUROSCI 391 Independent Scholarship 1 or NEUROSCI 493 Research Independent Study 1
- Only one allied elective may count

List FIVE electives planned for Neuroscience (BS/AB) major:
$\square$ 1.) $\qquad$2.) $\qquad$
$\square$ 3.) $\qquad$
$\square$ 4.) $\qquad$
$\square$ 5.) $\qquad$

## Minor in Neuroscience

## Five Electives

## Minor in Neuroscience

- minimum of 5 Neuroscience courses, with 4 at 200-level or higher
- 2 Foundation Courses (3 for BME BS1/NEUROSCI BS2 majors):

No more than TWO of the 5 courses required for the Minor may be used to satisfy another academic plan.

- one Gateway Course: NEUROSCI 101 or 102
- one (or more) Core Courses: NEUROSCI 201, 202, 211, 212 or 223
- BME BS1/NEUROSCI BS2 majors must take BME 301L/NEUROSCI 301L
- 3 Elective Courses (2 for BME BS1/NEUROSCI BS2 majors): Allied Electives do not count


## Undergraduate Neuroscience

## CO-REQUISITES for the Neuroscience Major

- For the BS, 7 courses are required
- For the AB, 5 courses are required
- For BS2 in Pratt, same as BS


## BIOLOGY

- 1 course is requiredBIOLOGY 201L Gateway to Biology: Molecular Biology
BIOLOGY 202L Gateway to Biology: Genetics and Evolution BIOLOGY 203L Gateway to Biology: Molecular Biology, Genetics \& Evolution
OR
BIOLOGY 20 (earned by a score of 4 or 5 on the College Board AP test in Biology)


## CHEMISTRY

- 1 general chemistry course (or its equivalent) is required:CHEM 20 General Chemistry Credit
CHEM 21 General Chemistry Credit
CHEM 101DL Core Concepts in Chemistry (or course equivalent) CHEM 110DL Honors Chemistry: Core Concepts in Context (or course equivalent; higher numbered courses may substitute)
OR
$\square$ A score of 4 or 5 on the College Board AP test in Chemistry can also be used to satisfy this co-requisite


## COMPUTER SCIENCE

- For BS Majors only: 1 of the following courses (or its equivalent) is required ( $A B$ does not have this co-requisite):NEUROSCI/COMPSCI 103L Computing and the Brain
COMPSCI 101L Introduction to Computer Science ENGINEERING 103L Computational Methods in Engineering NEUROSCI 590 Special Topics: Computational Methods in Neuroscience
OR
A score of 4 or 5 on the College Board AP test in Computer Science A or Computer Science Principles can also be used to satisfy this co-requisite


## MATHEMATICS

- For the BS, 2-course sequence of calculus is required
- For the $A B$, just 1 term is required

The first semester calculus requirement (BS) may be satisfied by one of the following:MATH 21 Introductory Calculus I
MATH 111L Laboratory Calculus I
MATH 121 Introductory Calculus I
MATH 105L Laboratory Calculus and Functions I and MATH 106L Laboratory Calculus and Functions II
ORA score of 5 on the College Board AP test in Calculus AB or a 4 or better in Calculus BC fulfills the first term of calculus

## (Mathematics Continued)

The second semester calculus (BS) requirement may be satisfied by one of the following:

MATH 22 Introductory Calculus II
MATH 112L Laboratory Calculus II
MATH 122 Introductory Calculus II
MATH 122L Laboratory Calculus II with Applications

A score of 5 on the College Board AP test in Calculus BC fulfills the co-requisite for both terms of calculus

## PHYSICS

- 2-course sequence of algebra- or calculus-based physics is required, which may be satisfied by one of the following 3 sequences (or their equivalent)
$\square$ PHYSICS 141L General Physics I (or course equivalent) PHYSICS 142L General Physics II (or course equivalent)

PHYSICS 151L Introductory Mechanics (or equivalent) PHYSICS 152L Introductory Electricity, Magnetism, and Optics (or course equivalent)

PHYSICS 161L Fundamentals of Physics I (or equivalent) PHYSICS 162L Fundamentals of Physics II (or equivalent)

PHYSICS 25/26 indicating a score of 4 or 5 on the AP Physics C exam for Mechanics and for Electricity and Magnetism, respectively

OR
College board verification of a score of 4 or 5 on the AP Physics B exam for Mechanics and for Electricity and Magnetism, or AP Physics 1 and 2 exams

