

Undergraduate Neuroscience

Major/Minor Requirements Worksheet

Name _____

Date _____

Expected Grad. Term _____

Student ID _____

Checked Co-requisites on back:

Bachelor of Science (BS)

[16 courses: 6 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)

[16 courses: 6 co-requisites + 10 Neuroscience courses (8 at 200-level or above; BME 301L/NEUROSCI 301L is required; statistics per recommendation of BME)]

Co-Requisite Courses [\[go to back\]](#)

Neuroscience Course Requirements:

Five Foundational Courses

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)*

Core Courses (2 required courses)

May be taken in either order.

- NEUROSCI 217D *Introduction to Cognitive Neuroscience*
- NEUROSCI 223 *Cellular and Molecular Neurobiology*

Statistics (choose 1 required course)

- Any STA 101-230 course
- BIOL 304 *Biological Data Analysis*
- PSY 204L & PSY 205L *Quantitative Research Methods and Statistics for Psychological Science 1 & 2*

Methods or Lab >300 (1 required course)

Take early in your program of study. See website.

- ONE *Methods or Laboratory Course*: _____

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
- Must complete TWO or more courses in Neuroscience *before* proposing NEUROSCI 391 *Independent Scholarship 1* or NEUROSCI 493 *Research Independent Study 1*
- Only TWO *Independent Scholarship* or *Research Independent Study* courses may count

List Five electives planned for Neuroscience (BS/AB) major:

- 1.) _____
- 2.) _____
- 3.) _____
- 4.) _____
- 5.) _____

For both the AB & BS degree plans, no more than **TWO** of the 10 courses required for the Major (not including co-requisites) may be used to satisfy another academic plan.

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):
 - one *Gateway Course*: NEUROSCI 101 or 102
 - one (or both) *Core Courses*: NEUROSCI 212 or 223
 - BME BS1/NEUROSCI BS2 majors must take BME 301L/NEUROSCI 301L
- 3 *Elective Courses* (2 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.

Undergraduate Neuroscience

CO-REQUISITES for the Neuroscience Major

- For the BS, 6 courses are required
- For the AB, 5 courses are required
- For BS2 in Pratt, same as BS

BIOLOGY

- 1 course is required
- BIOLOGY 20 earned by a score of 4 on College Board AP test.
 - BIOLOGY 21 earned by a score of 5 on College Board AP test.
 - BIOLOGY 201L *Gateway to Biology: Molecular Biology*
 - BIOLOGY 202L *Gateway to Biology: Genetics and Evolution*

CHEMISTRY

- 1 general chemistry course (or its equivalent) is required:
- CHEM 20 earned by a score of 4 on College Board AP test.
 - CHEM 21 earned by a score of 5 on College Board AP test.
 - CHEM 101DL *Core Concepts in Chemistry*
 - CHEM 110DL *Honors Chemistry: Core Concepts in Context* (or course equivalent; higher numbered courses may substitute)

COMPUTER SCIENCE

- For BS Majors only: 1 of the following courses (or AP equivalent) is required (AB does not have this co-requisite):
- A score of 4 or 5 on the College AP Test in Computer Science A
 - COMPSCI 20 earned by a score of 5 on the College AP test in Computer Science: Principles
 - COMPSCI 94 *Programming and Problem Solving*
 - COMPSCI 101L *Introduction to Computer Science*
 - COMPSCI 201 *Data Structures and Algorithms*
 - ENGINEERING 103L *Computational Methods in Engineering*
 - NEUROSCI 104L/COMPSCI 102L *Interdisciplinary Introduction to Computer Science*

MATHEMATICS

- For the BS & AB, 1 course required (or AP equivalent)
- MATH 21 *Introductory Calculus I* earned by a score of 4 or 5 on the AP Calculus BC exam or a score of 5 on the AP Calculus AB exam
 - MATH 22 *Introductory Calculus 2* earned by a score of 5 on the AP Calculus BC exam
 - MATH 105L *Laboratory Calculus and Functions I* and MATH 106L *Laboratory Calculus and Functions II*
 - MATH 111L *Laboratory Calculus 1*
 - MATH 121 *Introductory Calculus 1*

PHYSICS

- 2-course sequence of algebra- or calculus-based physics is required, which may be satisfied by one of the following sequences (or their equivalent)
- 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
- OR
- PHYSICS 25/26 indicating a score of 4 or 5 on the AP Physics C exam for Mechanics and for Electricity and Magnetism
- OR
- PHYSICS 121L *General Physics I-A* (avail. F'24)
 - PHYSICS 122L (avail. S'25)
- OR
- PHYSICS 151L *Introductory Mechanics*
 - PHYSICS 152L *Introductory Electricity, Magnetism, and Optics*
- OR
- PHYSICS 161L *Fundamentals of Physics I*
 - PHYSICS 162L *Fundamentals of Physics II*
 - PHYSICS 164L *Introductory Experimental Physics I*
 - PHYSICS 165L *Introductory Experimental Physics II*

NOTE: summer courses taken away from Duke may satisfy co-requisites, provided that the DUS in neuroscience has pre-approved the course(s) prior to enrollment.