

Students must declare a Major during Sophomore year, and by December if away Fall of Junior Year

Core Courses

	Course Name	Prerequisites
BIO 110 (or BISC 112+L)	Intro to Cell Biology	
NEUR 100 + P	Intro to Neuroscience	none
NEUR 200 + L	Neurons, Networks and Behavior	NEUR 100
PSYCH 205	Statistics	NEUR 100
NEUR 300	Capstone seminar in Neuroscience	NEUR 200

The process is as follows:
 1) student fills out major/minor declaration form and saves it.
 2) student attaches it to an email to her advisor
 3) advisor reviews it; more consultation required?
 4) advisor approves, forwards email with attachment regoffice@wellesley.edu cc: student & Jeanne/Karin
 OR
 4a) if transfer credits are involved, advisor forwards email with attachment to dept. chair
 5) dept. chair reviews it; approves & forwards to regoffice@wellesley.edu cc: student & Jeanne/Karin

Three 200-level courses from two of the three areas of concentration:

Cellular and molecular

BISC 219 + L	Genetics	BISC 110
BISC 220 + L	Cellular Physiology	BISC 110 2 units of Chem.
CHEM 211 + L	Organic Chemistry I	CHEM 105 OR CHEM 120
CHEM 223 + L	Biochemistry	CHEM 205 (OR CHEM 120) CHEM 211 and BISC 220
OR CHEM 222 + L		CHEM 205 (OR CHEM 120) CHEM 211 and CHEM 212

Cognitive

PSYCH 214	Evolutionary Psychology	NEUR 100
PSYCH 215	Memory	NEUR 100
PSYCH 216	Psychology of Language	NEUR 100
PSYCH 217	Cognition	NEUR 100
PSYCH 218	Sens'n & Percep'n	PSYCH 101
Phil 215	Philosophy of Mind	NEUR 100

Systems and computational

MATH 215	Mathematics for the Sciences I	MATH 116 or 120
PHYS 216	Mathematics for the Sciences II	MATH 215
PHYS 222	Medical Physics	PHYS 104 (or PHYS 107) NEUR 100, MATH 115
CS232	Artificial Intelligence	CS 230 or permission of instructor

Neuroscience Major Advisor Checklist	
<input type="checkbox"/>	proposed schedule meets major requirements
<input type="checkbox"/>	proposed schedule includes pre-requisites for major requirements
<input type="checkbox"/>	proposed schedule includes pre-med requirements (if appropriate)
<input type="checkbox"/>	discussed Junior-Year (or semester) abroad
<input type="checkbox"/>	discussed Honor's and/or independent research, see booklet (3.5 min GPA)

Three 300-level courses from two of the three areas of concentration, one must be a laboratory course:

Cellular and molecular

NEUR/BISC 306 + L	Neural Development	NEUR 200 (or BISC 216)
NEUR/BISC 315 + L	Neuroendocrinology	NEUR 200 (or BISC 110 and BISC 203)
NEUR 332	Neuro Seminar*	NEUR 200
BISC 302 + L	Animal Physiology	NEUR 100, BISC 203 (or BISC 206)
CHEM 306*	*	NEUR 200
NEUR 305 +L	Pharmacology	Neur 200

Want to Study Abroad?
 Check Office of International Studies for programs.
 Good neuroprograms in UK:
 Oxford (1 year minimum)
 UCL
 St. Andrew's, Scotland

Cognitive

PSYCH 301		
PSYCH 304R +L	Research Methods in evolution and human behavior	PSYCH 205, PSYCH 212 (or one of PSYCH 215, 216, 217, 218, 219)
PSYCH 314R +L	Research Methods in cognitive psychology	PSYCH 205 and NEUR 100
PSYCH 316	Seminar: Language Acquisition	two 200 level PSYCH courses (excluding PSYCH 205)
PSYCH 318	Seminar: Brain and Behavior	NEUR 200 and one 200 level PSYCH course (excluding PSYCH 205)
PSYCH 328*	*	NEUR 200 and one 200 level PSYCH course (excluding PSYCH 205)

Systems and computational

NEUR 320 + L	Vision and Art	NEUR 100 (or permission of instructor i.e NEUR 200 or 2 units of studio art or 2 units of art history)
NEUR 335 + L	Computational Neuroscience	PHYS 104 (or PHYS 107), PHYS 106 (or PHYS 108) or NEUR 200
Neur 325 +L	Sleep Learning & Memory	Neur 200
CS 332.	Visual Processing by Computer and Biological Vision Systems	CS 112 (or CS 230)

* topic changes; valid when neuroscience-related

bare minimum pre-med reqs (US):
1 year of English (2 semesters)
1 year of biology (Bio 111 & 110)
1 year of inorganic chemistry (Chem 105 & 205, or 120)
1 year of organic chemistry (chem 211 & 212)
1 year of Calculus (some schools require multivari)
1 year of physics (phys 104 & 106, or 107 & 108)
recommended:
1 semester of genetics
1 semester of biochem

Any other 300-level courses must be specifically approved by the Director.
 NEUR 250, 350, 360 and 370 do not count towards the minimum major.
 A minimum of 8 courses towards the major requirements must be taken at Wellesley.