

Bachelor of Arts in Philosophy & NeuroscienceBoston University College of Arts and Sciences
Undergraduate Program in Neuroscience

Course worksheet for Philosophy & Neuroscience majors transferring into BU in or after Fall 2024.

CORE NEUROSCIENCE COURSES (4 COURSES)

NE 101⁺# Intro to Neuroscience
 NE 102^{*} Intro to Cell & Molecular Biology or NE 116^{*} ISE I
 NE 202 Intro to Cognitive Neuroscience
 NE 203^{*} Principles of Neuroscience or NE 218^{*} ISE II

*NE 203 is only offered in the Fall semester. NE 102 and NE 202 are only offered in the Spring semester.

REQUIRED BASIC SCIENCE COURSES**CHEMISTRY* (1 or 2 courses)** Choose one sequence.

CH 171	CH 101 CH 102 <u>or</u> CH 116	CH 109 CH 110 <u>or</u> CH 112
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PHYSICS* (2 courses) Choose one sequence.

PY 105 PY 106	PY 211 PY 212	PY 241 PY 242
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CALCULUS (1 course) Choose one course.

MA 121	MA 123
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STATISTICS (1 or 2 courses) Choose one sequence.

NE 212	MA 115 MA 116	MA 213 MA 214
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GROUP 1 ELECTIVE: NEUROBIOLOGY (1 course)

NE 230 Behavioral Endocrinology
 NE 349 Neurotoxins
 NE 445^{*} Neurophysiology
 NE 455 Developmental Neurobiology
 NE 481 Molecular Neurobiology
 NE 503 Neuroimmunology
 NE 520 Sensory Neurobiology
 NE 525^{##} Neurodegenerative Diseases
 NE 535 Translational Research in Alzheimer's disease
 NE 542 Neuroethology
 NE 556 Drug Discovery in Neuroscience
 NE 561^{*} Proteostasis in the Bio. of Neurodegenerative Diseases
 NE 589 Neural Impacts on Tumorigenesis
 NE 594 Topics in Neurobiology
 NE 598 Neural Circuits
 BI 599 Physiology of the Synapse

GROUP 2 ELECTIVE: COGNITIVE (1 course)

NE 234^{##} Psych of Learning
 NE 323^{*} Exp. Psych: Learning
 NE 327^{*} Exp. Psych: Perception
 NE 328^{*} Exp. Psych: Memory
 NE 329^{*} Exp. Psych: Cognitive Neuro
 NE 333^{##} Drugs & Behavior
 NE 337 Memory Systems
 NE 338 Neuropsychology
 NE 456 Neurobiology of Sex and Aggression
 NE 521 Animal Models in Behavioral Neurobiology
 NE 528 Human Brain Mapping
 NE 529 Neuroplasticity
 NE 531 Imaging & Manipulating Memories
 NE 532 Neurobiology of Motivation, Decision Making, & Learning
 NE 544 Developmental Neuropsychology
 NE 592 Topics in Cognitive Neuro

PHILOSOPHY REQUIREMENTS**CORE PHILOSOPHY (3 courses)**

CAS PH 160^{*} or CAS PH 360
 CAS PH 300^{*} History of Ancient Philosophy
 CAS PH 310^{*} History of Modern Philosophy

MORAL, POLITICAL or LEGAL PHILOSOPHY (1 course)

PH 234 Wealth, Ethics and Liberty	PH 451 Contemporary Ethical Theory
PH 244 Ethics in Action	PH 452 Ethics of Health Care
PH 250 Environmental Ethics	PH 453 Theory of Political Society
PH 251 Medical Ethics	PH 454 Contemporary Ethical Theory
PH 253 Social Philosophy	PH 455 Legal Philosophy
PH 254 Political Philosophy	PH 458 Crime and Punishment
PH 255 Philosophy of Law	PH 459 Political and Legal Philosophy
PH 256 Philosophy of Gender & Sexuality	PH 481 Topics in Philosophy of Law
PH 272 Science, Technology, and Values	PH 485 Topics in Philosophy of Values
PH 350 History of Ethics	
PH 436 Gender, Race and Science	
PH 450 Types of Ethical Theory	

PHILOSOPHY OF MIND (1 course)

PH 261 Knowledge and Reality
 PH 265 Minds and Machines
 PH 266 Mind, Brain and Self
 PH 443 Philosophy of Mind

PHILOSOPHY OF SCIENCE (1 course)

PH 270 Philosophy of Science
 PH 487 Topics in the Philosophy of Science

400+ LEVEL PHILOSOPHY ELECTIVE (1 course)

PH 440 Metaphysics
 PH 460 Epistemology
 PH 463 Philosophy of Language
 Other 400-level Philosophy Course
 not already used to satisfy a requirement

Bachelor of Arts in Philosophy & Neuroscience

GENERAL EDUCATION REQUIREMENTS *For more details visit the [CAS Degree Overview](#) page.*

- ✓ 18 courses with 'C' or higher required for credit towards Philosophy (7) & Neuroscience (11) major. 'C-' or higher required for Chemistry sequence.
- ✓ 128 credits (excluding PDP, ROTC, FY, and SY) and successful completion of BU Hub units required to graduate from BU.
- ✓ 4th semester of foreign language proficiency required to graduate from CAS.

CAS 2nd LANGUAGE REQUIREMENT: *Can be completed by one of the following.*

Proficiency through the 4th semester: I II III IV

AP or IB Credit:

Bilingual Proficiency Evaluation:

BU HUB REQUIREMENTS:

PLM or AEX or HCO QR2 CRT

SI1 or SI2 IIC or GCI or ETR RIL

SO1 or SO2 WRI or WIN TWC
CRI

PRE-HEALTH REQUIREMENTS

- ✓ AP courses do not satisfy any pre-med requirements with the exception of AP Calculus AB/BC.
- ✓ Neuroscience majors are not required to take BI 107. The Pre-Health office recommends that Neuroscience majors take NE 102 or NE 116 and BI 203 or BI 213 or NE 218 (Cell Biology) and BI 315 (Systems Physiology) to complete the pre-health biology requirement.
- ✓ This check list is for guidance only and does not substitute an appointment with the Pre-Professional Advising Office.

- One year of biology with lab (NE 102 or NE 116 & BI 315)
- One semester of Cell Biology (BI 203 or BI 213)
- One year of General Chemistry with lab
- One year of Physics with lab
- One year of Writing
- One semester of Calculus
- One semester of Statistics
- One year of Organic Chemistry with lab (CH 203 and CH 204)
- One semester of Biochemistry (CH 373)
- One semester of Psychology (PS 101 or PS 261)
- One semester of Sociology (SO 100 or SO 215)

PROPOSED COURSE OF STUDY

	FALL	SPRING
YEAR ONE		
YEAR TWO	FALL	SPRING
YEAR THREE	FALL	SPRING
YEAR FOUR	FALL	SPRING

SUMMER COURSES

NOTES:

*Any courses in red are not met through the joint major in Philosophy & Neuroscience.