

# Bachelor of Arts in Philosophy & Neuroscience

**Boston 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<sup>#</sup> Intro to Neuroscience  
NE 102<sup>\*</sup> Intro to Cell & Molecular Biology or NE 116<sup>\*</sup> ISE I  
NE 202 Intro to Cognitive Neuroscience  
NE 203<sup>\*</sup> Principles of Neuroscience or NE 218<sup>\*</sup> 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<sup>\*</sup> Neurophysiology  
NE 455 Developmental Neurobiology  
NE 481 Molecular Neurobiology  
NE 503 Neuroimmunology  
NE 520 Sensory Neurobiology  
NE 525<sup>#</sup> Neurodegenerative Diseases  
NE 535 Translational Research in Alzheimer's disease  
NE 542 Neuroethology  
NE 556 Drug Discovery in Neuroscience  
NE 561<sup>\*</sup> 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  
SAR HS 549 Mechanisms of Disruption in Brain Disorders

## GROUP 2 ELECTIVE: COGNITIVE (1 course)

NE 234<sup>#</sup> Psych of Learning  
NE 323<sup>\*</sup> Exp. Psych: Learning  
NE 327<sup>\*</sup> Exp. Psych: Perception  
NE 328<sup>\*</sup> Exp. Psych: Memory  
NE 329<sup>\*</sup> Exp. Psych: Cognitive Neuro  
NE 333<sup>#</sup> Drugs & Behavior  
NE 337 Memory Systems  
NE 338 Neuropsychology  
NE 456 Neurobiology of Sex and Aggression  
NE 490 NeuroDiversity  
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<sup>+</sup> or CAS PH 360  
CAS PH 300<sup>+</sup> History of Ancient Philosophy  
CAS PH 310<sup>+</sup> 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, & 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

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## 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 units (excluding PDP, ROTC, FY, & SY) and successful completion of BU Hub requirements required to graduate from BU.
- ✓ 4<sup>th</sup> semester of foreign language proficiency required to graduate from CAS.

### CAS 2<sup>nd</sup> LANGUAGE REQUIREMENT: *Can be completed by one of the following.*

Proficiency through the 4<sup>th</sup> 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-health 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

YEAR THREE

YEAR FOUR

FALL      SPRING

FALL      SPRING

FALL      SPRING

SUMMER COURSES

NOTES:

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