

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 109
	CH 102 <u>or</u> CH 116	CH 110 <u>or</u> CH 112

PHYSICS^{*} (2 courses) Choose one sequence.

PY 105	PY 211	PY 241
PY 106	PY 212	PY 242

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 213
	MA 116	MA 214

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
- SAR HS 549 Mechanisms of Disruption in Brain Disorders

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

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

Boston University College of Arts and Sciences
Undergraduate Program in Neuroscience

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.
- ✓ 4th semester of foreign language proficiency required to graduate from CAS.

Proficiency through the 4th semester: I II III IV

AP or IB Credit:

Bilingual Proficiency Evaluation:

PLM or AEX or HCO QR2 CRTSI1 or SI2 IIC or GCI or ETR RIL

S01 or S02 WRI or WIN TWC

CRI

✓ 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**)

FALL

SPRING

YEAR ONE

FALL

SPRING

YEAR TWO

FALL

SPRING

YEAR THREE

FALL

SPRING

YEAR FOUR

SUMMER COURSES

NOTES:

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