



# Philosophy- Neuroscience- Psychology Major, Cognitive Neuroscience Concentration

## Program Requirements

- **Total units required:**\* 29-32 for primary major, 24-26 for secondary major

\* Several courses required for this major have prerequisite courses, which are not included in the major's total units required. Students will need to plan accordingly to fulfill the necessary prerequisites.

## Required Courses

### Core Undergraduate Requirements for Philosophy-Neuroscience-Psychology

All PNP majors, regardless of concentration, complete an entry sequence and core requirements:

#### a. Entry Sequence

Students choose one of the following two sequences:

##### PNP Sequence

Code	Title	Units
PNP 200	Introduction Cognitive Science	3
PNP 201	Inquiry in the Cognitive Sciences	3-4
or Psych 301	Experimental Psychology	

##### Mind, Brain, Behavior Sequence (MBB) Sequence

Code	Title	Units
FYP 120A	Amp: Intro to Study of the Mind-Brain: Psychological, Biological, & Philosophical Perspectives	3
FYP 122	Amperсанд: Pathfinder - A Sense of Place: Discovering the Environment of St. Louis	3
or PNP 200	Introduction Cognitive Science	

## b. Core Philosophy Requirements

### Prerequisite:

Code	Title	Units
Phil 100G	Logic and Critical Analysis	3
or Phil 102	Introduction to Scientific Reasoning	
or Phil 120F	Problems in Philosophy	
or Phil 125C	Great Philosophers	

### Upper Division Requirements:

Majors must take two courses at the 300 or 400 level:

- One course must be either PNP 306 Philosophy of Language or PNP 315 Philosophy of Mind.
- One course must be chosen from the following list:

Code	Title	Units
Music 3221	Music Cognition	3
Phil 3001	Philosophy of Medicine	3
Phil 3113	Theory of Knowledge	3
Phil 339F	Philosophy of the Arts	3
Phil 3481	Introduction to Metaphysics	3
Phil 349C	Descartes to Hume	3
Phil 361	Philosophy of Emotions	3
Phil 366	Art and the Mind-Brain	3
Phil 390	Philosophical Writing (upon approval of subject matter, consult PNP office for each semester)	3
Phil 403	Mathematical Logic 1	3
Phil 404	Mathematical Logic II	3
Phil 405	Philosophical Logic	3
Phil 4051	Philosophy of Logic	3
Phil 4061	Topics in the Philosophy of Language	3
Phil 410	Theories of Perception	3
Phil 4212	Philosophy of Neuroscience	3
Phil 423	Philosophy of Biological Science	3
PNP 301	Symbolic Logic	3
PNP 306	Philosophy of Language	3
PNP 315	Philosophy of Mind	3
PNP 316	Mind and Morals	3
PNP 321	Philosophy of Science	3
PNP 3581	Conceptual Foundations of Modern Science	3
PNP 4065	Advanced Philosophy of Language	3
PNP 4141	Advanced Epistemology	3
PNP 4142	Advanced Metaphysics	3
PNP 418	Current Controversies in Cognitive Science	3
PNP 419	Philosophy of Psychology	3
PNP 4210	Topics in Advanced Philosophy of Science: Scientific Explanation	3



PNP 426	Theories of Concepts	3
PNP 4332	Cognition and Computation	3
PNP 495	PNP Seminar	3
PNP 496	PNP Seminar	3
Phil 322	Philosophy of Biology	3

## c. Core Psychological & Brain Sciences Requirements

### Prerequisite:

Code	Title	Units
Psych 100B	Introduction to Psychology	3

### Upper Division Requirements:

Majors must take two courses at the 300 or 400 level:

- Unless the student has completed FYP 120A with a grade of B- or higher, they must take PNP 360 Cognitive Psychology or PNP 408 Psychology of Language
- One course must be chosen from the following list:

Code	Title	Units
PNP 3151	Introduction to Social Psychology	3
PNP 3211	Developmental Psychology	3
PNP 330	Sensation and Perception	3
PNP 3401	Biological Psychology	3
PNP 3451	Genes, Environment, and Human Behavior	3
PNP 3531	Psychology of Personality	3
PNP 3541	Psychopathology and Mental Health	3
PNP 360	Cognitive Psychology	3
PNP 361	Psychology of Learning	3
PNP 362	The Biological Basis of Human Behavior	3
PNP 380	Human Learning and Memory	3
PNP 408	Psychology of Language	3
PNP 4302	Cognitive Psychology Applied to Education	3
PNP 495	PNP Seminar	3
Psych 300	Introduction to Psychological Statistics	3
Psych 301	Experimental Psychology	4
Psych 326	Introduction to the Psychology of Aging	3
Psych 357	Introduction to Clinical Psychology	3
Psych 358	Language Acquisition	3
Psych 396	Psychological Dynamics of Empathy	3
Psych 4182	Perception, Thought, and Action	3
Psych 4301	Contemporary Topics in Cognitive Development	3
Psych 4631	Introduction to Computational Cognitive Science	3
Psych 4651	History and Modern Systems of Psychology	3

## Courses Required for the Cognitive Neuroscience Concentration

### Prerequisites:

Code	Title	Units
Biol 2960	Principles of Biology I *	3-4
or Psych 3401	Biological Psychology	

\* Permission of the instructor may be required before registering for Psych 3401 Biological Psychology.

### Upper Division Requirements:

Students must take the following two courses:

Code	Title	Units
Biol 3411	Principles of the Nervous System	3
Psych 3604	Cognitive Neuroscience	3

## Capstone

The capstone is required for honors students and first majors; it is recommended for second majors. It consists of one of the following:

- A PNP honors project (PNP 499, 6 units; requires PNP honors form to be filled out and approved by honors coordinator)
- The 2-unit PNP 390 PNP Reading Class plus PNP 495 or PNP 496
- The 2-unit PNP 390 PNP Reading Class plus 3 advanced units of independent study (PNP 500 Independent Work). The independent study details are available on the PNP website.

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