



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 I	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.

Contact: PNP Office
 Phone: 314-935-4297
 Email: pnp@wustl.edu
 Website: <http://pnp.artsci.wustl.edu>