

# AB Cognitive Neuroscience Concentration Requirements

*[Required for new declarations starting January 2025]*

*[Seniors graduating in 2025 must continue under old requirements. Juniors with an approved declaration are covered under the old requirements, but may also refile under the new ones.]*

The concentration requires **12 courses**. Please enter the course (number and title) and semester planned (or completed) for each requirement. A given course may only be counted towards one requirement.

## 2 Analysis Courses:

- Statistical Thinking (CPSY 0900 required)
- Research Methods (CPSY 1900/1901)<sup>1</sup>

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- \_\_\_\_\_

## 2 Foundation Courses in Cognition/Psychology, any two of the following:

- CPSY 0010 – Mind, Brain & Behavior
- CPSY0010 – Learning & Conditioning
- CPSY 0200 – Human Cognition *or* CPSY 0400 – Cognitive Neuroscience *or* CPSY 0450 – Brain Damage & Mind<sup>2</sup>
- CPSY 0500 – Perception & Mind
- CPSY 0550 – Science of Consciousness
- CPSY 0610 – Children’s Thinking *or* CPSY0700 – Social Psychology<sup>3</sup>

- \_\_\_\_\_
- \_\_\_\_\_

## 1 Foundation Course in Neuroscience, any one of the following:

- NEUR 0010 – Foundations of Neuroscience
- CPSY 0400 – Cognitive Neuroscience *or* CPSY 0450 – Brain Damage & Mind<sup>4</sup>

- \_\_\_\_\_

## 1 Foundation Course in Computation, any one of the following:

- CPSY 0950
- CPSY 1291
- CPSY 1492
- CPSY 1950
- Any CSCI course  $\geq$  0111 with a programming component (e.g., CSCI 0111, 0150, 0170, 0190)

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<sup>1</sup> NEUR or CPSY Laboratory courses (e.g., CPSY 1490, 1293) may be used with approval from the concentration advisor.

<sup>2</sup> Only one of these courses can be used to satisfy this requirement.

<sup>3</sup> Only one of these courses can be used to satisfy this requirement.

<sup>4</sup> If either CPSY 0200, 400, or 450 is used to satisfy the foundation course in Cognition/Psychology, NEUR 0010 must be used to fulfill the foundation course in Neuroscience.

**5 Electives:**

Electives are advanced courses that provide a deeper understanding of Cognitive Neuroscience, and should be drawn from CPSY, NEUR, or CSCI with at least three courses at the 1000 level. They might also come from APMA, COST, or PHP with approval from the concentration advisor.

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- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**1 Capstone:**

The Capstone is meant to integrate material from Foundation courses with the methods acquired from Analysis courses. The Capstone must be done during the seventh or eighth semester of Senior year, and can be fulfilled by completing any of the following:

- An Honors research project. (2 semesters of CPSY 1980 – Directed Research)
- A one-semester independent study course (CPSY 1970 – Directed Readings or CPSY 1980 – Directed Research)<sup>5</sup>
- A CPSY laboratory course (numbered CPSY 1\_9\_)<sup>6</sup>
- A CPSY seminar course, such as a Topics course (numbered CPSY 1\_8\_X) or other seminar-style course at the 1000-level
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**Additional ScB Cognitive Science Concentration Requirements**

*[Required for new declarations starting January 2025]*

The ScB concentration requires **17 courses**: the 12 courses listed under the AB requirements plus 5 additional STEM courses related to the concentration. At least two of them must be CPSY courses at the 1000 level, with a CPSY laboratory course strongly recommended. The other three can be from APMA, BIOL, CSCI, CHEM, CPSY, MATH, NEUR, or PHYS, provided that they satisfy the concentration requirements of that department.<sup>7</sup>

- CPSY Laboratory or 1000-level course \_\_\_\_\_
- CPSY 1000-level course \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

<sup>5</sup> Only two Independent Studies (CPSY 1970/1980) can be used to satisfy concentration requirements.

<sup>6</sup> A NEUR laboratory course may be used with concentration advisor approval.

<sup>7</sup> As with electives, you must provide a rationale for why the chosen STEM courses benefit your concentration.