**CLPS Cognitive Neuroscience Concentration**

**Information for Prospective Concentrators**

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| This information is intended to help prospective Cognitive Neuroscience concentrators decide whether this concentration is the best for you. If you need help with that decision, make an appointment with one of the concentration advisors. It will be helpful if, before your meeting, you use the information below to begin thinking about a course plan that is right for you.  |
| ***Common AB/ScB requirements are in white (12 courses); additional ScB requirements are in grey (5 courses for a total of 17)*** |
| ***Gateway and Methods Courses (3)*** | **Comments** |
| Mind, Brain and Behavior (CLPS 0010) | For transfer students, any Intro to Psychology course is acceptable. AP Psychology is never acceptable.  |
| Quantitative (CLPS 0900) | If too elementary, Experimental Design (CLPS 2906), Essentials of Data Analysis (PHP 1501, one prereq), Applied Research Methods for Economists (ECON 1629, 2 econ prereqs), or Statistical Inference 2 (APMA 1660, one prereq). If the student has already taken SOC 1100, we allow it, but we do not approve ahead of time. Note that APMA 1650 was acceptable in the past, but has changed and is no longer acceptable.  |
| Research Methods & Design (CLPS 1900) | Other acceptable methods courses: Functional Magnetic Imaging: Theory and Practice (CLPS 1490), Experimental Design (CLPS 2906), or any 1000 level laboratory course in CLPS or NEUR. Laboratory courses outside of CLPS or NEUR are not acceptable for this requirement. |
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| ***Foundation Topics (1 in each area)*** | *Courses in order of preference* |
| Cognitive Neuroscience | Cognitive Neuroscience (CLPS 0400), Brain Damage and the Mind (CLPS 0450), or Behavioral Neuroscience (CLPS 0150).  |
| Neuroscience | Introduction to Neuroscience (NEUR 0010), NEUR 1020 Intro to Neurobiology,, or NEUR 1030 Neural Systems |
| Cognitive Neuropsychology | Brain Damage and the Mind (CLPS 0450), seminar in Cognitive Neuropsychology ( CLPS 1420), or Human Cognition (CLPS 0200) |
| Computational Methods | Computational Cognitive Neuroscience (CLPS 1492), Computational Methods for Mind, Brain and Behavior (CLPS 1291), Deep Learning (CLPS 1950), Introduction to Programming (CLPS 0950), Intro to Object-Oriented Programming (CSCI 0150), Computing Foundations: Data (CSCI 0111) Intro to Object-Oriented Programming (CSCI 0150), Neural dynamics (NEUR 1440), Open-Source Big Data (NEUR 1630), and Computational Neuroscience (NEUR 1680)  |

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| ***Electives (4 courses, 3 must be 1000 level courses, typically in CLPS or NEUR*** |
| Elective courses should have a unified theme. Themes could be any of the foundation areas, or some other theme that has three available 1000 level courses, for example, developmental, language, or decision-making. | Any 1000 level course in CLPS or NEUR that is not being used to fulfill another requirement and fits with the unified theme is acceptable. Courses in other departments may be acceptable, if they clearly fit with the unified theme.  |
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| 2. |  |
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| ***Capstone: Approved Seminar or Independent Study (1)***  | For a seminar, any 1000 level seminar in CLPS or NEUR. For independent study, CLPS 1980 or NEUR 1970. |
| 1. |  |

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| ***Additional courses for the ScB*** |
| ***Laboratory Course*** | Any 1000 level laboratory course in CLPS or NEUR 1650. Laboratory courses outside of CLPS or NEUR are not acceptable.  |
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| ***Approved Science Courses*** |  |
| 1. | Any 1000 level course in CLPS or NEUR or any course that fulfills a requirement for concentrations in APMA, BIOL, CHEM, CCSI, MATH, or PHYS is acceptable as a science course.  |
| 2. |
| 3. |
| 4. |

**Other important items for Advisors and Advisees**

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| WRIT status is documented at the top of your concentration page. By the end of the next to last semester you should see - **WRQ 1: Completed WRQ 2: Completed** |
| **WRQ 1, Semester 1-4** |  |
| **WRQ 1, Semester 5-7** | The Dean of the College office will not approve courses taken before semester 5. Seniors much complete the second WRIT requirement \*before\* the final semester. |