

Name \_\_\_\_\_

Research Mentor \_\_\_\_\_

Major Advisor \_\_\_\_\_

Date \_\_\_\_\_

## **Cognitive Science Concentration for Psychology Majors Worksheet**

Starting with the graduating class of 2009, the Psychology Department offers a Concentration in Cognitive Science for Psychology Majors. This is an optional path through the major with requirements for the courses in the major plus additional coursework. The designation does not appear on your official transcript, but the department will keep a record of your completion of these requirements. You can include it on your resume or applications for graduate school as an indication of your training in research-based experimental psychology with an emphasis on human cognition. To become a Cognitive Science concentrator, apply using this form.

### **• BREADTH COURSES AND 300-LEVEL COURSES**

Breadth courses and electives must include at least four courses from among the following: Cognitive Psychology (Psyc 220), Sensation and Perception (Psyc 222), Cognitive Neuroscience (Psyc 225), Clinical Neuropsychology, (Psyc 228), Developmental Psychology (Psyc 230), or Behavioral Neurobiology (Psyc 240), or any 300-level course in cognitive science (partial list on back; other courses subject to committee approval). At least one of the courses must be a 300-level course in cognitive science.

**Any substitutions to listed courses must be preapproved by the committee.**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. (300 level course): \_\_\_\_\_

### **• ADDITIONAL NON-PSYCHOLOGY COURSES**

Students should take two courses outside the psychology department related to cognitive science. Please see the partial list on the back. Other courses may be accepted as well subject to committee approval.

5. \_\_\_\_\_
6. \_\_\_\_\_

### **• RESEARCH REQUIREMENT**

Students must fulfill a research requirement in addition to the other course requirements, usually through a one semester advanced research methods (PSYC370 or above, see approved list on the back) or tutorials PSYC 421/422/423/424. The research must be in the area of Cognitive Science. Students must receive *prior* approval in order for research tutorials to count toward this requirement. Cognitive Science research experiences from outside of Wesleyan must also be approved by the Cognitive Science Committee and require a note of support from your external research mentor. Note that the 300-level course cannot count to the research requirement if it is used in line 4 above. Please attach a typed description of your research experience.

7. \_\_\_\_\_ (and typed description of research experience)

### **IN THE SECOND SEMESTER OF THE SENIOR YEAR**

**If you would like to be considered for the Cognitive Science Concentration in Psychology, please submit this completed form to Cathy Race by FEBRUARY 1<sup>st</sup>**

Please direct questions to a member of the Cognitive Science Committee  
(Hilary Barth, Youssef Ezzyat, Barbara Juhasz, Andrea Patalano, Anna Shusterman, Kyungmi Kim)

**Partial List of Additional Non-Psychology Courses (other courses subject to committee approval)**

CGST 210 Language and Thought: Introduction to Linguistics  
COMP 131 Can Machines Think? Logic and Computation  
COMP 112 Introduction to Programming  
COMP 134 Human and Machine Inference  
ECON 211 Introduction to Behavioral and Experimental Economics  
ECON 311 Behavioral Economics  
NS&B 239 Brain Anatomy  
**NS&B 317 Neuroethics**  
NS&B 324 Neuropharmacology  
NS&B 351 Neurobiology of Learning & Memory  
NS&B 254 Comparative Animal Behavior  
NS&B 345 Developmental Neurobiology  
PHIL 219 Theories of Human Nature  
PHIL 231 Reason and Paradox  
PHIL 286 Philosophy of Mind  
PHIL 287 Philosophy of Science  
PHIL 289 Philosophy of Language  
PHIL 290 Philosophical Logic  
PHIL 293 Metaphysics  
PHIL 357 Animal Minds  
QAC 323 Bayesian Data Analysis: A Primer  
QAC 385 Applications of Machine Learning in Data Analysis

**300-level Psychology Courses Creditable to the Cognitive Science Concentration (other courses subject to committee approval)**

Psyc 322 Psychology of Decision Making  
Psyc 328 Current Research in Early Childhood  
Psyc 329 Neural Costs of War  
Psyc 332 Seminar in Cognitive Neuroscience  
Psyc 341 Psychology of Human Memory  
Psyc 348 Origins of Knowledge  
Psyc 355 Psychology of Reading  
Psyc 357 Seminar on Language & Thought  
Psyc 378 AR in Cognitive Neuroscience - Youssef  
Psyc 379 AR in Conceptual Development - Anna  
Psyc 382 Advanced Research in Decision Making  
Psyc 383 Advanced Research in Learning and Memory  
Psyc 384 Advanced Research in Cognitive Development  
Psyc 390 Experimental Investigations into Reading  
Psyc 392 Behavior Methods in Affective Neuroscience  
Psyc 393 Advanced Research in Cognition & Neuropsychiatric Illness