

## Undergraduate Major in COGNITIVE SCIENCE (Catalog Year 2021-22)

### General Requirements

- \_\_\_ Requires 40 credits, at most 21 in any one department.
- \_\_\_ The CLAS requirements for a BA or BS degree apply.
- \_\_\_ At most 6 transfer credits may be applied to the plan.
- \_\_\_ All courses on plan require a grade of C- (1.7) or higher.

### 1. Core Courses (16 credits)

- \_\_\_ COGS 2201 Foundations of Cognitive Science
- \_\_\_ COGS 3584 Seminar in Cognitive Science (1 credit)

Four of the following:

- \_\_\_ ANTH 3250 Cognitive Anthropology
- \_\_\_ CSE 4705 Artificial Intelligence
- \_\_\_ LING 2010Q The Science of Linguistics
- \_\_\_ PHIL 3250/W Philosophy of Mind
- \_\_\_ PSYC 2501 Cognitive Psychology
- \_\_\_ SLHS 4245/W Neurosci. Cog. & Comm. Disorders

### 2. Research (6 credits)

Statistics (one of the following, for at least 3 credits):

- \_\_\_ PSYC 2100(W)Q Principles of Research in Psych.
- \_\_\_ STAT 2215Q Introduction to Statistics II
- \_\_\_ STAT 3025Q Statistical Methods (Calculus level)

Methods (one of the following, for at least 3 credits):

- \_\_\_ ANTH 3004 Cultural Research (if elected for 3 credits)
- \_\_\_ LING 3110 Experimental Linguistics
- \_\_\_ PSYC 3250/W Lab in Animal Behavior & Learning
- \_\_\_ PSYC 3251/W Lab in Physiological Psychology
- \_\_\_ PSYC 3253 Sensory Neuroscience Lab
- \_\_\_ PSYC 3450W Lab in Developmental Psychology
- \_\_\_ PSYC 3550W Lab in Cognition
- \_\_\_ PSYC 3551W Lab in Psycholinguistics
- \_\_\_ PSYC 3552 Lab in Sensation and Perception

### 3. Formal Systems Courses (3 credits)

At least 3 credits are required, unless the '†' option is used.

- \_\_\_ CSE 2300W Digital Logic Design
- \_\_\_ CSE 2500 Introduction to Discrete Systems
- \_\_\_ CSE 3500 Algorithms and Complexity †
- \_\_\_ CSE 3502 Theory of Computation †
- \_\_\_ CSE 3802 Numerical Methods
- \_\_\_ LING 3000Q Intro to Computational Linguistics †
- \_\_\_ LING 3310Q Phonology †
- \_\_\_ LING 3410Q Semantics †
- \_\_\_ LING 3511Q Syntax †
- \_\_\_ Math 2210Q Applied Linear Algebra
- \_\_\_ Math 2410Q Elementary Differential Equations
- \_\_\_ Math 3160 Probability
- \_\_\_ Math 3210 Abstract Linear Algebra
- \_\_\_ Math 3230 Abstract Algebra
- \_\_\_ PHIL 2211Q Symbolic Logic
- \_\_\_ PHIL 3214 Symbolic Logic II

### 4. Advanced Courses (12 credits)

Must include courses from at least 3 different departments. Can include core courses not used to satisfy the Core Courses (§1) requirement.

- \_\_\_ ANTH 3200 Human Behavioral Ecology
- \_\_\_ ANTH 3405 Religion and Mind
- \_\_\_ CSE 3500 Algorithms and Complexity †
- \_\_\_ CSE 3502 Theory of Computation †
- \_\_\_ LING 3000Q Intro to Computational Linguistics †
- \_\_\_ LING 3310Q Phonology †
- \_\_\_ LING 3410Q Semantics †
- \_\_\_ LING 3511Q Syntax †
- \_\_\_ LING 3610W Language and Culture
- \_\_\_ PHIL 2208/W Epistemology
- \_\_\_ PHIL 2210/W Metaphysics
- \_\_\_ PHIL 2212/W Philosophy of Science
- \_\_\_ PHIL 3241 Language: Meaning and Truth
- \_\_\_ PNB 3251 Biology of the Brain
- \_\_\_ PSYC 2200 Physiological Psychology
- \_\_\_ PSYC 2208 Sensory Systems Neuroscience
- \_\_\_ PSYC 2209 Learning & Memory: Brain to Behavior
- \_\_\_ PSYC 2400 Developmental
- \_\_\_ PSYC 2500 Learning
- \_\_\_ PSYC 3100/W History and Systems in Psychology
- \_\_\_ PSYC 3270 Cur. Topics in Behavioral Neuroscience
- \_\_\_ PSYC 3440 Developmental Cognitive Neuroscience
- \_\_\_ PSYC 3470 Cur.Topics in Developmental Psych. \*
- \_\_\_ PSYC 3500 Psychology of Language
- \_\_\_ PSYC 3501 Sensation and Perception
- \_\_\_ PSYC 3502 Psychology of Consciousness
- \_\_\_ SLHS 2203 Anatomy/Physiology of Speech & Hearing
- \_\_\_ SLHS 2204 Speech and Language Acquisition
- \_\_\_ SLHS 4123 Bilingualism in Typ. & Atyp. Populations
- \_\_\_ SLHS 4254/W Intro. to Lang. Disorders in Children
- \_\_\_ SLHS 4376 Language Impairments & Literacy

### 5. Electives (3-6 credits)

One additional course (two, if the '†' option is used) from the above lists, COGS 3589, COGS 3599, ANTH 4596W, or other related courses from any department, chosen with advisor approval.

1. \_\_\_\_\_
2. \_\_\_\_\_

† Option: Any of the following can be counted towards the 12 credits in Advanced Courses (§4) and simultaneously "check off" the Formal Systems requirement (§3): CSE 3500, 3502; LING 3000Q, 3310Q, 3410Q, 3511Q. Students using this option must take 6 credits in §5. Others need 3 credits in §3 and 3 credits in §5.

\* PSYC 3470 is a variable topics course and may only be counted toward the major with the advisor's approval.

The writing-in-the-major requirement is fulfilled by taking any of the W courses listed on this plan.

### NOTES:

1. Commonly needed prerequisites: PSYC 1100 and 1101/3, for all PSYC courses in the major; STAT 1000Q or 1100Q, for all options in §2-Statistics; and at least one of PHIL 1101-1107, for most PHIL courses in the major.
2. COGS 2201 and COGS 3584 are spring-only courses; 2201 is best taken in Year 2; 3584 is best taken in Year 3 or 4.
3. Electives (§5) are similar to "Relateds," but this major does not require the usual 12 credits of "Related Courses".
4. Double major with Psychological Sciences is strongly discouraged, due to excessive overlap.

**Cognitive Science MINOR** (Catalog Year 2021-2022)

**Course Requirements**

To earn a minor in Cognitive Science, students must complete 15 credits at the 2000-level or above. COGS 2201 is required, plus four additional courses coming from at least three areas (A through F). No more than two courses may be counted from any single department.

- A. *Cognition*: ANTH 3250; CSE 4705; PHIL 3247/W, 3250/W; PSYC 2500, 2501.
- B. *Language*: LING 2010Q, 3610W; PHIL 3241; PSYC 3500.
- C. *Perception*: PHIL 3256/W; PSYC 3501, 3502.
- D. *Development*: PSYC 2400; PSYC 3470/W or SLHS 2204; SLHS 4254/W; 4376.
- E. *Neuroscience*: PHIL 3249/W; PNB 3251; PSYC 2200; 3270; SLHS 4245/W.
- F. *Formal Systems*: CSE 2500, 3502; LING 3000Q; 3310Q, 3410Q, 3511Q; PHIL 2211Q, 3214.

The student must earn a C (2.0) or better in each of the courses for the minor. A maximum of three credits counted towards the minor may come from transfer credit for courses equivalent to University of Connecticut courses. Substitutions are not possible for required courses in a minor.

The minor is offered by the College of Liberal Arts and Sciences. For more information, contact Prof. William Snyder, Director of Undergraduate Studies in Cognitive Science ([william.snyder@uconn.edu](mailto:william.snyder@uconn.edu)).

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*Worksheet:*

1. State the semester when COGS 2201 will be taken: \_\_\_\_\_

2. For three of areas A-F, indicate a course that will be taken:

Area \_\_\_\_: \_\_\_\_\_ Area \_\_\_\_: \_\_\_\_\_ Area \_\_\_\_: \_\_\_\_\_

3. Indicate one additional course to be taken in any of areas A-F: Area \_\_\_\_: \_\_\_\_\_

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