University of Connecticut, College of Liberal Arts and Sciences

Undergraduate Major in COGNITIVE SCIENCE *(Catalog Year 2022-23)*

General Requirements

___ *Requires <u>40</u> credits, at most 21 in any one department.*
___ *The CLAS requirements for a <u>BA</u> or <u>BS</u> degree apply.*
___ *At most <u>6</u> transfer credits may be applied to the plan.*
___ *All courses on plan require a grade of <u>C-</u> (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 3003 Field Res. in Soc. Set. *(if elected for <u>3 credits</u>)*
___ ANTH 3004 Cultural Research *(if elected for <u>3 credits</u>)*
___ 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, <u>unless</u> 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 <u>at least 3</u> 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
___ COGS 2345 Language and Racism
___ 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 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

* *<u>PSYC 3470</u> is a variable topics course and can be used as an Advanced Course with approval of advisor.*

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

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 <u>advisor approval</u>.

1. _____
2. _____

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

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