Undergraduate Major in COGNITIVE SCIENCE (Catalog Year 2024-25)

General Requirements	4. Advanced Courses* (12 credits)
Requires 40 credits, at most 21 in any one department.	Must include courses from <u>at least 3</u> different departments. Can
The CLAS requirements for a <u>BA</u> or <u>BS</u> degree apply.	include core courses not used to satisfy the Core Courses (§1)
At most 6 transfer credits may be applied to the plan.	requirement.
All courses on plan require a grade of C - (1.7) or higher.	
1. Core Courses (16 credits)	ANTH 3200 Human Behavioral Ecology
	ANTH 3405 Religion and Mind
COGS 2201 Foundations of Cognitive Science	COGS 2345 Language and Racism
COGS 3584 Seminar in Cognitive Science (1 credit) (F&S)	CSE 3500 Algorithms and Complexity †
Four of the following:	CSE 3502 Theory of Computation †
	LING 3000Q Intro to Computational Linguistics † (F)
ANTH 3250 Cognitive Anthropology	LING 3310Q Phonology † (F)
CSE 4705 Artificial Intelligence	LING 3410Q Semantics † (F)
LING 2010Q The Science of Linguistics (F&S)	LING 3511Q Syntax † (F)
PHIL 3250/W Philosophy of Mind	LING 3610W Language and Culture (F&S)
PSYC 2501 Cognitive Psychology	PHIL 2208/W Epistemology
SLHS 4245/W Neurosci. Cog. & Comm. Disorders	PHIL 2210/W Metaphysics
	PHIL 2212/W Philosophy of Science
2. Research (6 credits)	PHIL 3241 Language: Meaning and Truth
Statistics (one of the following, for at least 3 credits):	
PSYC 2100WQ Principles of Research in Psych.	PNB 3251 Biology of the Brain
STAT 2215Q Introduction to Statistics II	PSYC 2200 Physiological Psychology
STAT 3025Q Statistical Methods (Calculus level)	PSYC 2208 Sensory Systems Neuroscience
STAT 5025Q Statistical Methods (Calculus level)	PSYC 2209 Learning & Memory: Brain to Behavior
Methods (one of the following, for at least 3 credits):	PSYC 2400 Developmental
ANTH 3003 Field Res. in Soc. Set. (if elected for 3 credits)	PSYC 2500 Learning
ANTH 3004 Cultural Research (if elected for 3 credits)	PSYC 3270 Cur. Topics in Behavioral Neuroscience
ANTH 3090 Dir Field Res in Anth (if elected for <u>3 credits</u>)	PSYC 3440 Developmental Cognitive Neuroscience
LING 3110 Experimental Linguistics (F)	PSYC 3500 Psychology of Language
PSYC 3250W Lab in Animal Behavior & Learning	PSYC 3501 Sensation and Perception
PSYC 3251 Lab in Physiological Psychology	SLHS 2203 Anatomy/Physiology of Speech & Hearing (F&S)
	SLHS 2204 Speech and Language Acquisition (F&S)
PSYC 3253 Sensory Neuroscience Lab	SLHS 4123 Bilingualism in Typ. & Atyp. Populations
PSYC 3450W Lab in Developmental Psychology	SLHS 4254/W Intro. to Lang. Disorders in Children (F&S)
PSYC 3552 Lab in Sensation and Perception	SLHS 4376 Language Impairments & Literacy
3. Formal Systems Courses (3 credits)	
At least 3 credits are required, <u>unless</u> the '†' option is used.	* <u>PSYC 3470</u> is a variable topics course and can be used as an
	Advanced Course with approval of advisor.
COGS 2500Q Coding for Cognitive Science (F)	
CSE 2500 Introduction to Discrete Systems	† Option: Any of the following can be counted towards the 12 credits in
CSE 3500 Algorithms and Complexity †	Advanced Courses (§4) and simultaneously "check off" the Formal
CSE 3502 Theory of Computation †	<u>Systems</u> requirement (§3): CSE 3500, 3502; LING 3000Q, 3310Q,
CSE 3802 Numerical Methods	3410Q, 3511Q. Students using this option must take 6 credits in §5.
LING 3000Q Intro to Computational Linguistics †(S)	Others need 3 credits in §3 and 3 credits in §5.
LING 3310Q Phonology †(F)	5 Flord's (2 (1'4-)
LING 3410Q Semantics † (S)	5. Electives (3-6 credits)
LING 3511Q Syntax † (F)	One additional course (two, if the '†' option is used) from the
Math 2210Q Applied Linear Algebra	above lists, COGS 3589, COGS 3599, ANTH 4596W, or other
Math 2410Q Elementary Differential Equations	related courses from any department, chosen with <u>advisor</u>
Math 3160 Probability	<u>approval</u> .
Math 3210 Abstract Linear Algebra	1 STAT 3025Q
Math 3230 Abstract Algebra	
PHIL 2211Q Symbolic Logic	2
PHIL 3214 Symbolic Logic II	
1 IIIL 3217 Symbolic Logic II	The writing-in-the-major requirement is fulfilled by taking any of the W

courses listed on this plan.
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.
- F = Normally offered during Fall semester

NOTES:

S = Normally offered during Spring semester