Undergraduate Major in COGNITIVE SCIENCE (Catalog Year 2018-19, Rev.B)

General Requirements	4. Advanced Courses (12 credits)
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.	Must include courses from <u>at least 3</u> different departments. Can include core courses not used to satisfy the Core
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.	Courses (§1) requirement.
	ANTH 3200 Human Behavioral Ecology
1. Core Courses (16 credits)	ANTH 3405 Religion and Mind *
COGS 2201 Foundations of Cognitive Science	CSE 3500 Algorithms and Complexity †
COGS 3584 Seminar in Cognitive Science (1 credit)	CSE 3502 Theory of Computation †
Four of the following:	LING 3310Q Phonology †
	LING 3410Q Semantics †
ANTH 3250 Cognitive Anthropology	LING 3511Q Syntax †
CSE 4705 Artificial Intelligence	LING 3610W Language and Culture
LING 2010Q The Science of Linguistics	PHIL 2208/W Epistemology *
PHIL 3250/W Philosophy of Mind	PHIL 2210/W Metaphysics *
PSYC 2501 Cognitive PsychologySLHS 4245/W Neurosci. Cog. & Comm. Disorders	PHIL 2212/W Philosophy of Science PHIL 3241 Language: Meaning and Truth
SEITS 4243/W Neurosci. Cog. & Comm. Disorders	PNB 3251 Biology of the Brain
2. Research (6 credits)	PSYC 2200 Physiological Psychology
·	PSYC 2208 Sensory Systems Neuroscience *
Statistics (one of the following, for at least 3 credits):	PSYC 2209 Learning & Memory: Brain to Behavior *
PSYC 2100(W)Q Principles of Research in Psych.	PSYC 2400 Developmental
STAT 2215Q Introduction to Statistics II	PSYC 2500 Learning
STAT 3025Q Statistical Methods (Calculus level)	PSYC 3100/W History and Systems in Psychology
Methods (one of the following, for at least 3 credits):	PSYC 3440 Developmental Cognitive Neuroscience
inethous (one of the following, for at least 3 credits).	PSYC 3470 Cur. Topics in Developmental Psych. **
ANTH 3004 Cultural Research (if elected for <u>3 credits</u>)	PSYC 3500 Psychology of Language
LING 3110 Experimental Linguistics	PSYC 3501 Sensation and Perception
PSYC 3250/W Lab in Animal Behavior & Learning	PSYC 3502 Psychology of Consciousness
PSYC 3251/W Lab in Physiological Psychology	SLHS 2203 Anatomy/Physiology of Speech & Hearing *
PSYC 3253 Sensory Neuroscience Lab	SLHS 2204 Speech and Language Acquisition
PSYC 3450W Lab in Developmental Psychology	SLHS 4123 Bilingualism in Typ. & Atyp. Populations * SLHS 4254/W Intro. to Lang. Disorders in Children
PSYC 3550W Lab in CognitionPSYC 3551W Lab in Psycholinguistics	SLH3 4234/ Willio. to Lang. Disorders in Children
PSYC 3552 Lab in Sensation and Perception	5. Electives (3-6 credits)
1 0 10 3032 Eab in Ochsation and 1 creeption	One additional course (two, if the ' † ' option is used) from the
3. Formal Systems Courses (0-3 credits)	above lists, COGS 3589, COGS 3599, ANTH 4596W, or
At least 3 credits are required, except if the '†' option is used.	other related courses from any department, chosen with
CSE 2300W Digital Logic Design	<u>advisors' approval</u> .
CSE 2500 Introduction to Discrete Systems	1.
CSE 3500 Algorithms and Complexity †	2.
CSE 3502 Theory of Computation †	-
CSE 3802 Numerical Methods	[†] Any of the following can count towards the 12 credits in §4 and
LING 3310Q Phonology †	simultaneously "check off" the <u>Formal Systems</u> requirement
LING 3410Q Semantics †	(§3): CSE 3500, 3502; LING 3310Q, 3410Q, 3511Q. Students
LING 3511Q Syntax [†]	using this option <u>must</u> take 6 credits in §5. Others need 3 credits in §3 and 3 credits in §5.
Math 2210Q Applied Linear Algebra	· ·
Math 2410Q Elementary Differential Equations	* Recently approved option, not in 2018-19 Catalog, but already
Math 3160 Probability	available to majors. (Please direct any questions to Prof. William Snyder.)
Math 3210 Abstract Linear Algebra	• ,
Math 3230 Abstract Algebra	** <u>PSYC 3470</u> is a variable topics course and may only be
PHIL 2211Q Symbolic Logic	counted toward the major with advisors' approval.
PHIL 3214 Symbolic Logic II	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 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. <u>Double major</u> with <u>Psychological Sciences</u> is <u>strongly discouraged</u>, due to excessive overlap.