## **Undergraduate Major in COGNITIVE SCIENCE** (Catalog Year 2025-26)

General Requirements	4. Advanced Courses (12 credits)
Requires <u>40</u> credit. No more than 21 credits can come from	Must include courses from <u>at least 3</u> different departments. Can
a single department	include core courses not used to satisfy the Core Courses (§1)
The CLAS requirements for a <u>BA</u> or <u>BS</u> degree apply.	requirement.
At most 6 transfer credits may be applied to the plan.	ANTH 3200/ANTH 5306 Human Behavioral Ecology
All courses on plan require a grade of $\underline{C}$ - (1.7) or higher.	ANTH 3405 Religion and Mind
Graduate courses (5000+) need instructor permission	COGS 2345 Language and Racism
	COMM 4650 Human-Computer Interactions
1. Core Courses (16 credits)	CSE 3500 Algorithms and Complexity †
COGS 2201 Foundations of Cognitive Science (S)	CSE 3502 Theory of Computation †
COGS 3584 Seminar in Cognitive Science (1 credit) (F&S)	LING 3000Q/5000 Intro to Computational Linguistics † (F)
	LING 3310Q/5310 Phonology †(F)
Four of the following:	LING 3410Q/5410 Semantics † (F)
ANTH 3250/ANTH 5332 Cognitive Anthropology	LING 3511Q/5510 Syntax † (F) <b>or</b>
COGS 2500Q Coding for Cognitive Sciences (F)	LING 5500 Advance Introduction to Syntax
CSE 4705 Artificial Intelligence	LING 3610W Language and Culture (F&S)
LING 2010Q The Science of Linguistics (F&S)	PHIL 2208 Epistemology
PHIL 3250/W Philosophy of Mind	PHIL 2210/2210W Metaphysics
PSYC 2501 Cognitive Psychology (F&S)	PHIL 2212/2212W Philosophy of Science
SLHS 4245/W Neurosci. Cog. & Comm. Disorders (F&S)	PHIL 3241 Language: Meaning and Truth
	PHIL 3247/W Philosophy of Psychology
2. Research (6 credits)	PNB 3251 Biology of the Brain
Statistics (one of the following, for at least 3 credits):	PSYC 2200 Physiological Psychology (F&S)
	PSYC 2208 Sensory Systems Neuroscience (F&S)
PSYC 2100Q/PSYC 2100WQ Prin. of Res. in Psych. (F&S)	PSYC 2209 Learning & Memory: Brain to Behavior (F&S)
STAT 2215Q Introduction to Statistics II	PSYC 2400 Developmental (F&S)
STAT 3025Q Statistical Methods (Calculus level)	
Methods (one of the following, for at least 3 credits):	PSYC 2500 Learning (F&S)
ANTH 3003 Field Res. in Soc. Set. (if elected for <u>3 credits</u> ) or	PSYC 3100/W The Hist. and Systems of Psychology (F&S)
ANTH 5321 Ethnographic Methods	PSYC 3270 Current Topics in Behavioral Neuroscience (S*)
ANTH 3021 Ethnographic Methods ANTH 3004 Cultural Research (if elected for 3 credits)	or COGS 5150/PSYC 5424 Cog. Neuroscience of
ANTH 3004 Cultural Research (y elected for <u>3 credits</u> )  ANTH 3090 Dir Field Res in Anth (if elected for <u>3 credits</u> )	Language Across the Lifespan
	PSYC 3440 Developmental Cognitive Neuroscience or
LING 3110 Experimental Linguistics (F) or	COGS 5130/PSYC 5150 Neurodevelopment & Plasticity
LING 6110 Methods in Acquisition	PSYC 3470 Current Topics in Developmental Psychology*
PSYC 3250W Lab in Animal Behavior & Learning	PSYC 3500 Psychology of Language (F&S) or
PSYC 3251/W Lab in Physiological Psychology (F&S)	COGS 5120 Struct., Acquis., & Process. of Lang
PSYC 3253 Sensory Neuroscience Lab (F&S)	PSYC 3501 Sensation and Perception (S)
PSYC 3450W Lab in Developmental Psychology (S)	PSYC 3502 Psychology of Consciousness
PSYC 3551 Lab Cognition	PSYC 3503 Computer Modeling of Cognitive Proceesses or
PSYC 3552 Lab in Sensation and Perception (F)	PSYC 5570 Current Topics in Cognitive Science (S)
	PSYC 3504 Music, Perception, and Cognition (S)
3. Formal Systems Courses (3 credits)	SLHS 2203 Anatomy/Physiology of Speech & Hearing (F&S)
At least 3 credits are required, <u>unless</u> the '†' option is used.	SLHS 2204 Speech and Language Acquisition (F&S)
CSE 2500 Introduction to Discrete Systems	SLHS 4123 Bilingualism Lang. & Cogn. in Typ. &
CSE 3500 Algorithms and Complexity †	Atyp. Pop. (F*)
CSE 3502 Theory of Computation †	SLHS 4254/W Intro. to Lang. Disorders in Children (F&S) or
CSE 3802 Numerical Methods	COGS 5140/PSYC 5445 Neurobio. of Lang.: Typ. &
LING 3000Q/5000 Intro to Computational Linguistics †(S)	Atyp. Cogn. & Lang. Dev.
LING 3310Q/5310 Phonology †(F)	
LING 3410Q/5410 Semantics † (S)	* PSYC 3470 is a variable topics course and can be used as an
LING 3511Q Syntax † (F) or	Advanced Course with approval of advisor.
LING 5500 Advance Introduction to Syntax	
Math 2210Q Applied Linear Algebra	† Option: Any of the following can be counted towards the 12 credits in
Math 2410Q Elementary Differential Equations	Advanced Courses (§4) and simultaneously "check off" the Formal
Math 3160 Probability	<u>Systems</u> requirement (§3): CSE 3500, 3502; LING 3000Q, 3310Q,
Math 3210 Abstract Linear Algebra	3410Q, 3511Q. Students using this option <u>must</u> take 6 credits in §5.
Math 3230 Abstract Algebra	Others need 3 credits in §3 and 3 credits in §5.
PHIL 2211Q Symbolic Logic	
PHIL 3214 Symbolic Logic II	
PSYC 3503 Computer Modeling of Cognitive Proceesses of	•
PSYC 5570 Current Topics in Cognitive Science (S)	

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## 5. Electives (3-6 credits)

You need to take one more class (or two if you choose a course marked with †) from the list above (Core Courses, Research Courses, Formal Systems, or Advanced Courses).
You can also take COGS 3589, COGS 3599, ANTH 4596W, or a similar course from any department, but you must check with your advisor first to make sure it counts.

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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 spring-only 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 (Note: Availability may vary by instructor, so double-check each semester.)
- S = Normally offered during Spring semester (Note: Availability may vary by instructor, so double-check each semester.)
- S\* = Lastly offered during Spring semester; however, this may change depending on enrollment—at least 8 students are required to open the course.
- F\* = Lastly offered during Fall semester; however, this may change depending on enrollment—at least 8 students are required to open the course.