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 <u>6</u> transfer credits may be applied to the plan.	
All courses on plan require a grade of \underline{C} - (1.7) or higher.	ANTH 3200/ANTH 5306 Human Behavioral Ecology
Graduate courses (5000+) need instructor permission	ANTH 3405 Religion and Mind or
	ANTH 5331 Cognitive Science of Religion
1. Core Courses (16 credits)	COGS 2345 Language and Racism
COGS 2201 Foundations of Cognitive Science	COMM 4650 Human-Computer Interactions
COGS 3584 Seminar in Cognitive Science (1 credit) (F&S)	CSE 3500 Algorithms and Complexity †
	CSE 3502 Theory of Computation †
Four of the following:	LING 3000Q Intro to Computational Linguistics † (F)
ANTH 3250/ANTH 5332 Cognitive Anthropology	LING 3310Q/5310 Phonology † (F)
COGS 2500Q Coding for Cognitive Sciences (F)	LING 3410Q/5410 Semantics † (F)
CSE 4705 Artificial Intelligence	LING 3511Q/5510 Syntax † (F) or
LING 2010Q The Science of Linguistics (F&S)	LING 5500 Advance Introduction to Syntax
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	
SEITS 12 15/ W Prediction. Cog. & Commit. Disorders	PHIL 2210/W Metaphysics
2 Descaped (6 anadita)	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):	PHIL 3247/W Philosophy of Psychology
PSYC 2100Q/PSYC 2100WQ Principles of Research in Psych	
STAT 2215Q Introduction to Statistics II	PSYC 2200 Physiological Psychology
STAT 3025Q Statistical Methods (Calculus level)	PSYC 2208 Sensory Systems Neuroscience
Made to (and full of the control of	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 <u>3 credits</u>) or	PSYC 2500 Learning
ANTH 5321 Ethnographic Methods	PSYC 3100/W The History and Systems of Psychology
ANTH 3004 Cultural Research (if elected for <u>3 credits</u>)	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 or
LING 3110/6110 Experimental Linguistics (F)	COGS 5130/PSYC 5150 Neurodev. & Plast.
PYCH 2100Q/WQ Principles of Research in Psychology	PSYC 3500 Psychology of Language or
PSYC 3250W Lab in Animal Behavior & Learning	COGS 5120 Struct., Acquis., & Process. of Lang
PSYC 3251/W Lab in Physiological Psychology	PSYC 3501 Sensation and Perception
PSYC 3253 Sensory Neuroscience Lab	PSYC 3501 Music, Perception, and Cognition
PSYC 3450W Lab in Developmental Psychology	PSYC 3503/5570 Intro. to Programming Complex Systems (S)
PSYC 3551W Lab in Sensation and Perception	PSYC 3270 Current Topics in Behavioral Neuroscience or
PSYC 3552 Lab in Sensation and Perception	COGS 5150/PSYC 5424 Cognitive Neuroscience of
15 1 C 3552 Euto in Schsution und 1 creeption	Language Across the Lifespan
3. Formal Systems Courses (3 credits)	
At least 3 credits are required, <u>unless</u> the '†' option is used.	SLHS 2203 Anatomy/Physiology of Speech & Hearing (F&S)
	SLHS 2204 Speech and Language Acquisition (F&S)
CSE 2500 Introduction to Discrete Systems	SLHS 4123/5123 Bil. Lang. & Cogn. in Typ. & Atyp. Pop.
CSE 3500 Algorithms and Complexity †	SLHS 4254/W Intro. to Lang. Disorders in Children (F&S) or
CSE 3502 Theory of Computation †	COGS 5140/PSYC 5445 Neurobio. of Lang.: Typ. &
CSE 3802 Numerical Methods	Atyp. Cogn. & Lang. Dev.
LING 3000Q/5000 Intro to Computational Linguistics †(S)	
LING 3310Q/5310 Phonology † (F)	* <u>PSYC 3470</u> is a variable topics course and can be used as an
LING 3410Q/5410 Semantics † (S)	Advanced Course with approval of advisor.
LING 3511Q Syntax † (F) or	
LING 5500 Advance Introduction to Syntax	† Option: Any of the following can be counted towards the 12 credits in
Math 2210Q Applied Linear Algebra	Advanced Courses (§4) and simultaneously "check off" the Formal
Math 2410Q Elementary Differential Equations	<u>Systems</u> requirement (§3): CSE 3500, 3502; LING 3000Q, 3310Q,
Math 3160 Probability	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.
Math 3210 Abstract Linear Algebra	Sincis neca s creatis in ys and s creatis in ys.
Math 3230 Abstract Algebra	
PHIL 2211Q Symbolic Logic	
PHIL 3214 Symbolic Logic II	
PSYC 3503/5570 Intro. to Programming Complex Systems (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

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
- S = Normally offered during Spring semester