UCLA Undergraduate Interdepartmental Program for Neuroscience

https://www.neurosci.ucla.edu/ | Advisors: Jaclyn Robbin and Aftin Whitten (neurosci@ucla.edu)

Neuroscience (B.S.): The scientific study of the brain requires the skills of many different disciplines. Thus, this major is interdisciplinary and interdepartmental. The faculty are biologists, psychologists, biochemists, mathematicians, and engineers, all of whom share a fascination with the function of the brain. The brain is studied at many different levels, including the molecular and cellular levels, the level of systems of neurons, and the behavioral level.

	uroscience M101/102 series or declaring the major.)	
Life Sciences	Life Sciences 7A, 7B, 7C, and 23L	
Math	Life Sciences 30A, 30B , and Statistics 13 (or Life	
Choose one Math series from the following	Sciences 40)	
options.	<u>or</u>	
	Math 3A, 3B, and 3C	
	<u>or</u>	
	Math 31A, 31B, and 32A	
Physics	Physics 5A, 5B, and 5C	
Choose one Physics series from the following	<u>or</u>	
options.	Physics 1A, 1B , 1C, 4AL, and 4BL	
	*Physics does not require Physics 5B as a pre-requisite for	
	Physics 5C	
Chemistry	Chemistry 14A, 14B, 14BL, 14C , 14CL, and 14D	
Choose one Chemistry series from the following	<u>or</u>	
options.	Chemistry 20A, 20B , 20L, 30A , 30AL, 30B, and	
	30BL	
Statistics	Statistics 10	
Choose one Statistics course from the following	<u>or</u>	
options.	Statistics 13	
	<u>or</u>	
	Life Sciences 40	
	*LS 30A/B students must take Stats 13 or LS 40	
	**Biostats 100A or 110A or Psych 100A may be substituted	

Important Notes: Preparation for the Neuroscience Major

- Each course must be passed with a C- or higher.
- All courses must be taken for a letter grade.
- Student must complete the preparation with an overall 2.0 GPA.
- All honors section of a course listed above is also acceptable.
- Students who repeat more than two (2) preparation classes or any preparation class more than once are subject to dismissal from the major.
- Refer to the UCLA General Catalog (http://catalog.registrar.ucla.edu/index.html) for course descriptions and requisites.

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10 upper division courses; Approx. 43 units

-The upper division courses of the major must be completed with a 2.0 GPA overall -No more than eight (8) courses total may be from any one department

1	NEUROSCIENCE REQUIRED CORE (5 Courses)	
1	Neuroscience M101A (Fall; Prerequisites: LS 7C, Chem 14C/30A, Physics 5C/1B)	
1	Neuroscience 102 (Fall; Perquisites: LS 7C and concurrently with NEUROSC M101A. If offered in summer, may take prior to NEUROSC M101A.)	
1	Neuroscience M101B (Winter; Prerequisite: NEUROSC M101A with a C- or better)	
1	Neuroscience M101C (Spring; Prerequisite: NEUROSC M101A with a C- or better)	
(Chemistry 153A (Prerequisite: Chem 14D/30B)	

NEUROSCIENCE ELECTIVE OPTIONS (3 COURSES)			
(Complete one elective from each category. Full list of electives on neurosci.ucla.edu.)			
Examples of Behavioral and Cognitive Neuroscience Electives	-Disability Studies M139, Music Industry M103		
	-Neuroscience M119L, CM123*, M161, M170, C172, M176*, C177*, 178,		
	179, M187*, 191A		
	-Physiological Science M106*, CM123*, C130*, C144*, 175*, M176*, M181*		
	-Psychology 110, 112A, 112B-C*, 118, 119A*, 119B*, 119C-F, 119I*, 119J*,		
	M119L, 119M*, M119O, 119P, 119R, 119S*, 119U, M119X*, 120A, 120B*,		
	124A-B, 124C*, 124D, 124K, 127B, 137A*, M139, 161, 164*, M166*		
	-Psychiatry 174, 176, M182		
Examples of Systems and Integrative Neuroscience Electives	-Neuroscience M119N, CM123*, M135, M145*, M176*, C177*, M187*, 191B		
	-Physics C186*		
	-Physiological Science M106*, CM123*, C126*, C127*, C130*, M135, 138,		
	C144*, M145*, 146*, 147*, 173, M176*, 177, M181*		
	-Psychology 112B*, 112C*, M117J*, 119A*, 119B*, 119I*, 119J*, 119M*,		
	M119N, 119Q, 119S*, M119X*, 120B*, 124C*, 137A*, 162*, 164*, M166*		
Examples of Molecular, Cell, and Developmental Neuroscience	-Neuroscience M145*, 150, C177*, 180, 181, 182, 186, M187*, 191C		
Electives	-Physics C186*		
	-Physiological Science M106*, 121, C126*, C127*, M145*, 146*, 147*, 174,		
	175*, M181*		
*	-Psychology 119A*, 162*, M166*		

*Electives are cross-listed in another category, but can only be used once. Please pay careful to attention to the enrollment notes on the Registrar's Schedule of Classes. Many classes are often open to all students during Summer Sessions. To substitute a class: Students must be enrolled in the class before it will be substituted.

RESEARCH CAPSTONE OPTIONS (2 COURSES)				
Option 1: Lab Methods	Option 2: Independent Research	Option 3: DOPA-Team		
NEUROSC 101L: Pre-reqs: NEUROSC M101A	NEUROSC 199A & 199B or NEUROSC 198A	NEUROSC C177 and NEUROSC 192C: Pre-		
and NEUROSC M101B (NEUROSC M101B	& 198B^: Pre-reqs: NEUROSC M101A and	reqs: NEUROSC M101A and approval by		
may be taken concurrently with NEUROSC	SRP-99 or departmental 199 research contract	instructors via application process.		
101L.)	in a neuroscience related lab under the same			
	faculty mentor who has an Academic Senate	Notes: Students who are interested in applying		
Notes: NEUROSC 101L is offered only in	title.	for the DOPA-Team Capstone must apply in		
Winter Quarter.		fall quarter when applications are made		
	Notes: Must be consecutive quarters; not	available.		
PSYCH 116A or B is an acceptable	offered during Summer. Poster required at			
substitution for NEUROSC 101L.	Neuroscience Poster Session; 3.0 GPA min.	If accepted, students enroll in NEUROSC C177		
		in Winter Quarter and NEUROSC 192C in		
Additional Major Elective: Students who	NEUROSC 199A and NEUROSC 199B-	Spring Quarter. Must be taken in 2 consecutive		
choose the Lab Methods Capstone option must	Project Brainstorm Option: Students who are	Winter and Spring quarters. Poster required at		
take a total of 4 neuroscience upper division	interested in applying for NEUROSC 199A and	Neuroscience Poster Session.		
electives with at least one elective from each	199B- Project Brainstorm should apply in fall			
elective category. The 4th elective may be from	quarter when applications are made available.	Space is extremely limited. For more		
any category.	Must be approved by faculty mentor via	information, contact instructors, Rafael		
	application process. Must be taken in 2	Romero, raromer@ucla.edu, and Chris Evans,		
	consecutive Winter and Spring Quarters.	cevans@ucla.edu.		
	Space is extremely limited. For more			
	information, contact <u>brainstorm@ucla.edu</u> .	honore contracts and NELIDOSC 191H. Please visi		

*Conly for students pursuing Departmental Honors. Additional honors requirements: two departmental honors contracts and NEUROSC 191H. Please visit https://www.neurosci.ucla.edu/program/departmental-honors/ for specific details.