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.

Preparation for the Neuroscience Major		
(Courses in BOLD must be completed before beginning the Neuroscience 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.	or Math 3A, 3B, and 3C	
	or 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 and enhanced sections of a course listed above are 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 (<u>https://catalog.registrar.ucla.edu/</u>) 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

NEUROSCIENCE REQUIRED CORE (5 Courses)
Neuroscience M101A (Fall; Prerequisites: LS 7C, Chem 14C/30A, Physics 5C/1B)
Neuroscience 102 (Fall; Prerequisites: LS 7C and concurrently with NEUROSC M101A. If offered in summer, may take prior to NEUROSC M101A.)
Neuroscience M101B (Winter; Prerequisite: NEUROSC M101A with a C- or better)
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*, 142, M161, M170, C172, M176*, C177*, 178, 179, M187*, 191A -Physiological Science M106*, CM123*, C130*, C144*, 175*, M176*, M181* -Psychology 110, 112A, 112B-C*, 112E, 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*, C151, 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 Electives	-Neuroscience M145*, 150, C177*, 180, 181, 182, 186, M187*, 191C -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 192CX: 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 guarters; not	available.	
PSYCH 116A or 116B is an acceptable	offered during Summer. Poster required at		
substitution for NEUROSC 101L and is offered	Neuroscience Poster Session; 3.0 GPA min.	If accepted, students enroll in NEUROSC C177	
every quarter, including summer session.		in Winter Quarter and NEUROSC 192CX in	
	NEUROSC 199A and NEUROSC 199B-	Spring Quarter. Must be taken in 2 consecutive	
Additional Major Elective: Students who	Project Brainstorm Option: Students who are	Winter and Spring quarters. Poster required at	
choose the Lab Methods Capstone option must	interested in applying for Project Brainstorm	Neuroscience Poster Session.	
take a total of 4 neuroscience upper division	should apply in fall quarter when applications		
electives with at least one elective from each	are made available. Must be approved by	Space is extremely limited. For more	
elective category. The 4th elective may be from	faculty mentor via application process. Must be	information, contact instructors, Rafael	
any category.	taken in 2 consecutive Winter and Spring	Romero, raromer@ucla.edu, and Chris Evans,	
, , ,	Quarters. Space is extremely limited. For more	cevans@ucla.edu.	
	information, contact <u>brainstorm@ucla.edu</u> .		
Only for students pursuing Departmental Honors, Additional honors requirements; two departmental honors contracts and NEUROSC 191H. Please vis			

<u>^Only 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.</u>