# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

To: University of California, Los Angeles 2022-2023 General Catalog, Quarter

From: De Anza College 2022-2023 General Catalog, Quarter

### Neuroscience/B.S.

#### **IMPORTANT MAJOR INFORMATION**

Listed below are the lower division major preparation courses for the major as well as important details to review. **THIS MAJOR IS HIGHLY SELECTIVE**. To be considered for admission, you <u>must</u> complete one year of biology for major with laboratory, one year of general chemistry with laboratory, one year of calculus and one semester of organic chemistry with lab by the end of spring before transfer. Completion of a second semester of organic chemistry or one year of calculus based physics is strongly recommended. If your college does not offer a two semester or three quarter sequence in calculus-based physics, it is recommended that you complete Physics 5ABC after you transfer to UCLA. All courses must be taken for a letter grade.

 $\textbf{For more information regarding this major and UCLA's transfer selection process, visit $\frac{\text{https://www.neuroscience.ucla.edu}}{\text{nttps://admission.ucla.edu}}$ and $\frac{\text{https://admission.ucla.edu}}{\text{nttps://admission.ucla.edu}}$.}$ 

PLEASE NOTE: the community college courses listed below have been approved to satisfy the preparation requirements for this major at UCLA, but they <u>may</u> not be exact equivalents of the UCLA courses listed.

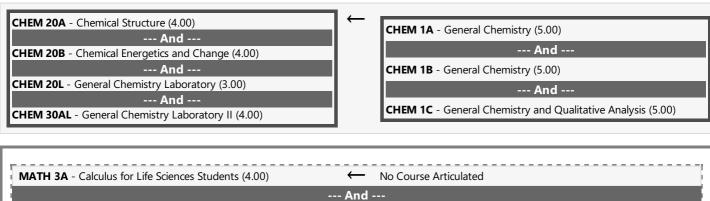
#### **ADDITIONAL NOTES**

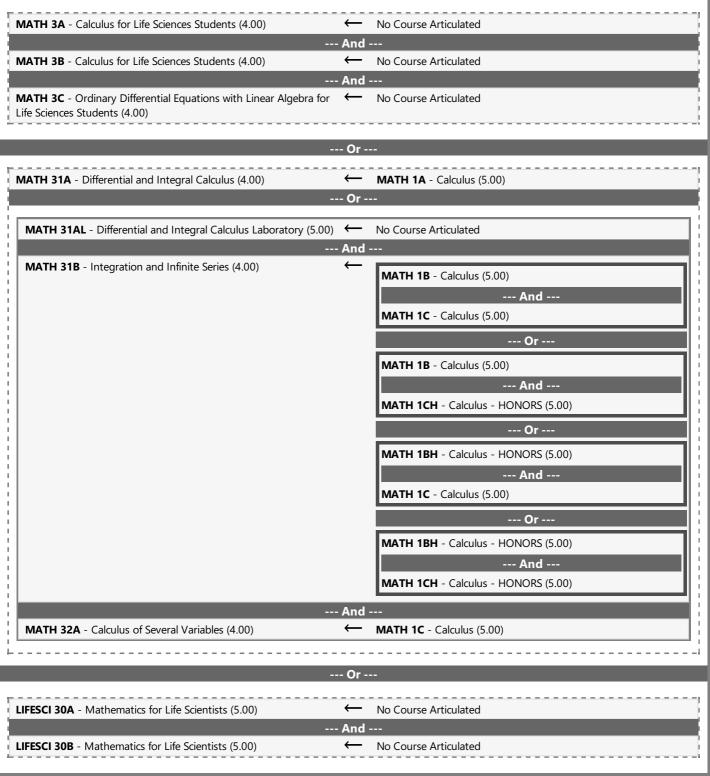
- UCLA's life science majors require the completion of extensive preparatory coursework prior to transfer, therefore, you <u>must</u> be admitted directly into a life science major; you will <u>not</u> be able to change from a non-life science major into a life science major after admission into UCLA.
- Students who have placed out of UCLA's Math 31A course based on AP/IB credit may be required to complete UCLA's Math 3C, 32A or an equivalent course
  after transfer.
- The Calculus for Life Sciences courses listed below have been approved as substitutes for UCLA's Math 3ABC series through Spring 2019. However, students
  may be required to complete additional math courses after transfer to satisfy this requirement.
- Calculus 32A is NOT required for admission into the premajor; this course can be completed after transfera to UCLA.
- The community college statistics course included on this agreement has been accepted as a substitute for Statistics 13 however, it may not transfer as an exact UCLA equivalent.
- UCLA's Chem 153A and 153L are upper division major courses that are recommended, but NOT required for admission into the pre-major. Transfer credit for these courses will be awarded via petition by the Chemistry department post transfer.

## **LOWER DIVISION MAJOR REQUIREMENTS**

#### \*\*REFER TO TOP OF AGREEMENT\*\*

LIFESCI 7A - Cell and Molecular Biology (5.00)	<b>←</b>	BIOL 6B - Cell and Molecular Biology (6.00)
LIFESCI 7B - Genetics, Evolution, and Ecology (5.00)	$\leftarrow$	BIOL 6C - Ecology and Evolution (6.00)
		Or
		BIOL 6CH - Ecology and Evolution - HONORS (6.00)
LIFESCI 7C - Physiology and Human Biology (5.00)	$\leftarrow$	BIOL 6A - Form and Function in the Biological World (6.00)
<b>LIFESCI 23L</b> - Introduction to Laboratory and Scientific Methodology (3.00)	$\leftarrow$	BIOL 6A - Form and Function in the Biological World (6.00)
(3.00)		And
		BIOL 6B - Cell and Molecular Biology (6.00)
		And
		BIOL 6C - Ecology and Evolution (6.00)
		Or
		BIOL 6A - Form and Function in the Biological World (6.00)
		And
		BIOL 6B - Cell and Molecular Biology (6.00)
		And
		BIOL 6CH - Ecology and Evolution - HONORS (6.00)





PHYSICS 1A - Physics for Scientists and Engineers: Mechanics PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00) (5.00)--- And ------ And ---PHYS 4B - Physics for Scientists and Engineers: Electricity and PHYSICS 1B - Physics for Scientists and Engineers: Oscillations, Magnetism (6.00) Waves, Electric and Magnetic Fields (5.00) --- And ------ And ---**PHYSICS 1C** - Physics for Scientists and Engineers: PHYS 4C - Physics for Scientists and Engineers: Fluids, Waves, Electrodynamics, Optics, and Special Relativity (5.00) Optics and Thermodynamics (6.00) --- And ---PHYSICS 4AL - Physics Laboratory for Scientists and Engineers: Mechanics (2.00) --- And ---PHYSICS 4BL - Physics Laboratory for Scientists and Engineers: Electricity and Magnetism (2.00) Articulates as a sequence only --- Or ---PHYSICS 5A - Physics for Life Sciences Majors: Mechanics, and PHYS 2A - General Introductory Physics (5.00) Energy (5.00) --- And ------ And ---PHYS 2B - General Introductory Physics (5.00) PHYSICS 5B - Physics for Life Sciences Majors: Thermodynamics, Fluids, Waves, Light, and Optics (5.00) --- And ------ And ---PHYS 2C - General Introductory Physics (5.00) PHYSICS 5C - Physics for Life Sciences Majors: Electricity, Magnetism, and Modern Physics (5.00) CHEM 30A - Organic Chemistry I: Structure and Reactivity (4.00) CHEM 12A - Organic Chemistry (5.00) --- And ------ And ---CHEM 30B - Organic Chemistry II: Reactivity, Synthesis, and CHEM 12B - Organic Chemistry (5.00) Spectroscopy (4.00) --- And ------ And --CHEM 30BL - Organic Chemistry Laboratory I (3.00) CHEM 12C - Organic Chemistry (5.00) --- And ---CHEM 30C - Organic Chemistry III: Reactivity, Synthesis, and Biomolecules (4.00) --- And ---CHEM 30CL - Organic Chemistry Laboratory II (4.00) Recommended \*\*REFER TO TOP OF AGREEMENT\*\* No Course Articulated CHEM 153A - Biochemistry: Introduction to Structure, Enzymes, and Metabolism (4.00) --- And ---CHEM 153L - Biochemical Methods I (4.00) Petition department after transfer STATS 10 - Introduction to Statistical Reasoning (5.00) MATH 10 - Introductory Statistics (5.00) STATS 13 - Introduction to Statistical Methods for Life and Health MATH 10 - Introductory Statistics (5.00) Sciences (5.00)

