## **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

## Physics/B.S.

## **IMPORTANT MAJOR INFORMATION**

Listed below are the lower division preparation courses for the major. To be considered for this major, you must complete one and a half years of calculus through multivariable, one year of calculus based physics with lab for the major (mechanics, electricity, and magnetism) and Linear Algebra by the end of spring before transfer. It is strongly recommended that the remainder of major prep be completed prior to transfer. All courses must be taken for a letter grade. For more information regarding this major and UCLA's transfer selection process, visit <a href="https://www.pa.ucla.edu">https://www.pa.ucla.edu</a> and <a href="https://www.pa.ucla.edu">ht

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

## **LOWER DIVISION MAJOR REQUIREMENTS**

PHYSICS 1A - Physics for Scientists and Engineers: Mechanics (5.00)  And PHYSICS 1B - Physics for Scientists and Engineers: Oscillations,	PHYS 4A - Physics for Scientists and Engineers: Mechanics (6.00)
	PHYS 4B - Physics for Scientists and Engineers: Electricity and
Waves, Electric and Magnetic Fields (5.00) And	Magnetism (6.00) And
PHYSICS 1C - Physics for Scientists and Engineers: Electrodynamics, Optics, and Special Relativity (5.00) And	<b>PHYS 4C</b> - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)
PHYSICS 4AL - Physics Laboratory for Scientists and Engineers:  Mechanics (2.00)  And	
<b>PHYSICS 4BL</b> - Physics Laboratory for Scientists and Engineers: Electricity and Magnetism (2.00)	
Articulates as a sequence only	
PHYSICS 17 - Modern Physics (4.00)	<ul> <li>PHYS 4D - Physics for Scientists and Engineers: Modern Physics (6.00)</li> <li>PHYS 4D - Physics for Scientists and Engineers: Modern Physics (6.00)</li> </ul>
CHEM 20A - Chemical Structure (4.00)	<b>←</b>
	CHEM 1A - General Chemistry (5.00) And
	CHEM 1B - General Chemistry (5.00)
And	
CHEM 20B - Chemical Energetics and Change (4.00)	CHEM 1B - General Chemistry (5.00)
	And
	CHEM 1C - General Chemistry and Qualitative Analysis (5.00)
MATH 31A - Differential and Integral Calculus (4.00)	MATH 1A - Calculus (5.00)
MATH 31AL - Differential and Integral Calculus Laboratory (5.00)	Or  ← No Course Articulated
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