

# 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

## Human Biology and Society/B.S.

### IMPORTANT MAJOR INFORMATION

Listed below are the lower division preparation courses for the major. **THIS IS A HIGHLY SELECTIVE MAJOR.** To be considered for this major, you *must* 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 at UCLA after transfer. All courses must be taken for a letter grade. For more information regarding this major and UCLA's transfer selection process, visit <https://socgen.ucla.edu/> and <https://admission.ucla.edu>.

**PLEASE NOTE:** the community college course listed below have been approved to satisfy the preparation requirements for this major at UCLA, but they may 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 must be admitted directly into a life science major. You will not be able to change from a non-life science major into a life science major after admission to 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.

### ONE COURSE FROM THE FOLLOWING:

**SOC GEN 5** - Integrated Approaches to Human Biology and Society (5.00) ← No Course Articulated

--- Or ---

**SOC GEN M71A** - Biotechnology and Society (6.00) ← No Course Articulated  
Same-As: CLUSTER M71A, CLUSTER M71B

--- Or ---

**SOCIOL M72A** - Sex from Biology to Gendered Society (6.00) ← No Course Articulated  
Same-As: SOC GEN M72A, COMM M72A, CLUSTER M72A

### LOWER DIVISION MAJOR REQUIREMENTS

**ANTHRO 1** - HUMAN EVOLUTION (5.00)

← **ANTH 1** - Physical Anthropology (4.00)

**CHEM 20A** - Chemical Structure (4.00)

--- And ---

**CHEM 20B** - Chemical Energetics and Change (4.00)

--- And ---

**CHEM 20L** - General Chemistry Laboratory (3.00)

--- And ---

**CHEM 30AL** - General Chemistry Laboratory II (4.00)

←

**CHEM 1A** - General Chemistry (5.00)

--- And ---

**CHEM 1B** - General Chemistry (5.00)

--- And ---

**CHEM 1C** - General Chemistry and Qualitative Analysis (5.00)

**CHEM 30A** - Organic Chemistry I: Structure and Reactivity (4.00)

--- And ---

**CHEM 30B** - Organic Chemistry II: Reactivity, Synthesis, and Spectroscopy (4.00)

--- And ---

**CHEM 30BL** - Organic Chemistry Laboratory I (3.00)

--- And ---

**CHEM 30C** - Organic Chemistry III: Reactivity, Synthesis, and Biomolecules (4.00)

--- And ---

**CHEM 30CL** - Organic Chemistry Laboratory II (4.00)



**CHEM 12A** - Organic Chemistry (5.00)

--- And ---

**CHEM 12B** - Organic Chemistry (5.00)

--- And ---

**CHEM 12C** - Organic Chemistry (5.00)

**LIFESCI 7A** - Cell and Molecular Biology (5.00)



**BIOL 6B** - Cell and Molecular Biology (6.00)

**LIFESCI 7B** - Genetics, Evolution, and Ecology (5.00)



**BIOL 6C** - Ecology and Evolution (6.00)

--- Or ---

**BIOL 6CH** - Ecology and Evolution - HONORS (6.00)

**LIFESCI 7C** - Physiology and Human Biology (5.00)



**BIOL 6A** - Form and Function in the Biological World (6.00)

**LIFESCI 23L** - Introduction to Laboratory and Scientific Methodology (3.00)



**BIOL 6A** - Form and Function in the Biological World (6.00)

--- 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)

**MATH 3A** - Calculus for Life Sciences Students (4.00)



No Course Articulated

--- And ---

**MATH 3B** - Calculus for Life Sciences Students (4.00)



No Course Articulated

--- And ---

**MATH 3C** - Ordinary Differential Equations with Linear Algebra for Life Sciences Students (4.00)



No Course Articulated

--- And ---

**STATS 10** - Introduction to Statistical Reasoning (5.00)



**MATH 10** - Introductory Statistics (5.00)

--- Or ---

**STATS 13** - Introduction to Statistical Methods for Life and Health Sciences (5.00)



**MATH 10** - Introductory Statistics (5.00)

- *Acceptable substitute*

--- Or ---

**MATH 31A** - Differential and Integral Calculus (4.00)



**MATH 1A** - Calculus (5.00)

--- Or ---

**MATH 31AL** - Differential and Integral Calculus Laboratory (5.00)



No Course Articulated

--- And ---

**MATH 31B** - Integration and Infinite Series (4.00)



**MATH 1B** - Calculus (5.00)

--- And ---

**MATH 1C** - Calculus (5.00)

--- Or ---

**MATH 1B** - Calculus (5.00)

--- And ---

**MATH 1CH** - Calculus - HONORS (5.00)

--- Or ---

**MATH 1BH** - Calculus - HONORS (5.00)

--- And ---

**MATH 1C** - Calculus (5.00)

--- Or ---

**MATH 1BH** - Calculus - HONORS (5.00)

--- And ---

**MATH 1CH** - Calculus - HONORS (5.00)

--- And ---

**MATH 32A** - Calculus of Several Variables (4.00)



**MATH 1C** - Calculus (5.00)

--- And ---

**STATS 10** - Introduction to Statistical Reasoning (5.00)



**MATH 10** - Introductory Statistics (5.00)

--- Or ---

**STATS 13** - Introduction to Statistical Methods for Life and Health Sciences (5.00)



**MATH 10** - Introductory Statistics (5.00)

- *Acceptable substitute*

--- Or ---

**LIFESCI 30A** - Mathematics for Life Scientists (5.00)



No Course Articulated

--- And ---

**LIFESCI 30B** - Mathematics for Life Scientists (5.00)



No Course Articulated

--- And ---

**LIFESCI 40** - Statistics of Biological Systems (5.00)



No Course Articulated

--- Or ---

**STATS 13** - Introduction to Statistical Methods for Life and Health Sciences (5.00)



**MATH 10** - Introductory Statistics (5.00)

- *Acceptable substitute*

**PHYSICS 1A** - Physics for Scientists and Engineers: Mechanics (5.00)

--- And ---

**PHYSICS 1B** - Physics for Scientists and Engineers: Oscillations, Waves, Electric and Magnetic Fields (5.00)

--- And ---

**PHYSICS 1C** - Physics for Scientists and Engineers: Electrodynamics, Optics, and Special Relativity (5.00)

--- 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)

**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

--- And ---

**PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)

--- And ---

**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

--- Or ---

**PHYSICS 5A** - Physics for Life Sciences Majors: Mechanics, and Energy (5.00)

--- And ---

**PHYSICS 5B** - Physics for Life Sciences Majors: Thermodynamics, Fluids, Waves, Light, and Optics (5.00)

--- And ---

**PHYSICS 5C** - Physics for Life Sciences Majors: Electricity, Magnetism, and Modern Physics (5.00)

**PHYS 2A** - General Introductory Physics (5.00)

--- And ---

**PHYS 2B** - General Introductory Physics (5.00)

--- And ---

**PHYS 2C** - General Introductory Physics (5.00)

## SOCIAL THEORY

Select 8 Quarter Units from the following

**SOCIOL M5** - Social Organization of Black Communities (5.00)  
Same-As: AF AMER M5

← No Course Articulated

**AM IND M10** - Introduction to American Studies (5.00)

← No Course Articulated

**ANTHRO 3** - CULTURE AND SOCIETY (5.00)

← **ANTH 2** - Cultural Anthropology (4.00)

**ASIA AM 20** - Contemporary Asian American Communities (5.00)

← **ASAM 10** - Contemporary Asian American Communities (4.00)

--- Or ---

**ASIA AM 20W** - Contemporary Asian American Communities (5.00)

← No Course Articulated

**CHICANO 10A** - Introduction to Chicana/Chicano Studies: History and Culture (5.00)

← No Course Articulated

**CHICANO 10B** - Introduction to Chicana/Chicano Studies: Social Structure and Contemporary Conditions (5.00)

← No Course Articulated

Clusters M1A through 80CW

← No Course Articulated

**GENDER 10** - Introduction to Gender Studies (5.00)

← **WMST 1** - Introduction to Women's Studies (4.00)

**GEOG 3** - Cultural Geography (5.00)

← **GEO 4** - Cultural Geography (4.00)

**HIST 3C** - History of Science: 20th Century (5.00)

← No Course Articulated

**MCD BIO 50** - Stem Cell Biology, Politics, and Ethics: Teasing Apart Issues (5.00)

← No Course Articulated

**MCD BIO 60** - Biomedical Ethics (5.00)

← No Course Articulated

**PHILOS 4** - Philosophical Analysis of Contemporary Moral Issues (5.00)

← No Course Articulated

<b>PHILOS 6</b> - Introduction to Political Philosophy (5.00)	←	No Course Articulated
<b>PHILOS 8</b> - Introduction to Philosophy of Science (5.00)	←	No Course Articulated
<b>PHILOS 22</b> - Introduction to Ethical Theory (5.00)	←	<b>PHIL 8</b> - Ethics (4.00)
--- Or ---		
<b>PHILOS 22W</b> - Introduction to Ethical Theory (5.00)	←	No Course Articulated
<b>PUB PLC 10A</b> - Introduction to Public Policy (5.00)	←	No Course Articulated
<b>SOCIOL 1</b> - Introductory Sociology (5.00)	←	<b>SOC 1</b> - Introduction to Sociology (4.00)

**END OF AGREEMENT**