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

Cognitive Science/B.S.

IMPORTANT MAJOR INFORMATION

Listed below are the lower division preparation courses for the major. **To be considered for this major, you should complete the following seven courses by the spring before transfer. This includes one year of calculus, one course in introduction to C++ and four courses from the following: one course in introductory psychology, one course in introductory biology or biology for the major, one course in introductory physics or chemistry or linguistics, one course in philosophy (critical reason, science, of the mind or logic), and two intermediate level computing courses by the spring before transfer**. All courses must be taken for a letter grade. Students are classified as Pre-Cognitive Science until all preparation courses are completed at UCLA. Transfer students must be directly admitted as Pre-Cognitive Science in order to major in Cognitive Science.

Applicants for Fall 2024 and beyond must complete seven courses, including one computing course, by end of spring before transfer. You must be directly admitted in to this major and cannot change into this major after admission to UCLA.All courses must be taken for a letter grade. For more information regarding this major and UCLA's selection process, visit https://www.psych.ucla.edu and https://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 may not be exact equivalents of the UCLA courses listed.

AP/IB EXAM CREDIT

The AP Exam Scores listed below may be used to satisfy the Cognitive Science major prep.

- **A score of 5 or higher on the AP Calculus BC exam can be used in place of both calculus courses.**
- **A score of 4 on the AP Calculus BC exam can be used in place of the first calculus course.**
- **A score of 3 or higher on the AP Physics B or C exam can be used in place of the physics course.**
- **A score of 3 or hgher on the AP Biology exam can be used in place of the biology course.**
- **A score of 3 or higher on the AP Chemistry exam can be used in place of the chemistry course.**
- **A score of 4 or higher on the AP Psychology exam can be used in place of the psychology course.**

The IB Exam Scores listed below may be used to satisfy the Cognitive Science major prep

- **A score of 5 or higher on the IB HL Biology exam can be used in place of the biology course.**
- **A score on 5 or higher on the IB HL Chemistry exam can be used in place of the chemistry course.**
- **A score on 5 or higher on the IB HL Psychology exam can be used in place of the psychology course.**

NOTE: The biology requirement may be satisfied with 1 nonmajor intro biology course or 1 major biology course that is equal to Life Science science 7A or is PART of a Life Science 7A equivalency.

ADDITIONAL PROGRAMMING INFORMATION

Students are advised to complete the Program in Computing courses as soon as possible. Transfer students may complete the equivalent of UCLA's Com Sci 31, 32, 33 and M51A courses to satisfy the programming requirement for Cognitive Science. Completion of the equivalent of UCLA's CS 31 + CS 32 will transfer as Computing 10ABC, while completion of the equivalent of CS 33 or CS M51A can be used to satisfy one of the two additional computing courses needed in addition to Program in Computing 10A .

LOWER DIVISION MAJOR REQUIREMENTS

PSYCH 10 - Introductory Psychology (4.00)	←	**PSYC 1** - General Psychology (4.00)
PSYCH 85 - Introduction to Cognitive Science (4.00)	←	No Course Articulated

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

--- Or ---

MATH 31A - Differential and Integral Calculus (4.00) ← **MATH 1A** - Calculus (5.00)

--- 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 ---

LIFESCI 7A - Cell and Molecular Biology (5.00) ← **BIOL 6B** - Cell and Molecular Biology (6.00)

--- Or ---

LIFESCI 15 - Life: Concepts and Issues (5.00) ← **BIOL 10** - Introductory Biology (5.00)

--- Or ---

PHYSCI 3 - Introduction to Human Physiology (5.00) ←

BIOL 40A - Human Anatomy and Physiology (5.00)
--- And ---
BIOL 40B - Human Anatomy and Physiology (5.00)
--- And ---
BIOL 40C - Human Anatomy and Physiology (5.00)

One Introductory Chemistry Course ← **CHEM 10** - Introductory Chemistry (5.00)

--- Or ---

CHEM 17 - Chemical Principles (4.00) ← No Course Articulated

--- Or ---

CHEM 20A - Chemical Structure (4.00) ←

CHEM 1A - General Chemistry (5.00)
--- And ---
CHEM 1B - General Chemistry (5.00)

--- Or ---

LING 1 - Introduction to Study of Language (5.00) ← **LING 1** - Introduction to Linguistics (4.00)

--- Or ---

LING 20 - Introduction to Linguistics Analysis (5.00) ← No Course Articulated

--- Or ---

PHYSICS 10 - Physics (4.00)	←	**PHYS 10** - Concepts of Physics (5.00) **--- Or ---** **PHYS 2A** - General Introductory Physics (5.00)
--- Or ---		
PHYSICS 11 - Revolutions in Physics (4.00)	←	No Course Articulated
--- Or ---		
PHYSICS 5A - Physics for Life Sciences Majors: Mechanics, and Energy (5.00)	←	**PHYS 2A** - General Introductory Physics (5.00)
--- Or ---		
PHYSICS 1A - Physics for Scientists and Engineers: Mechanics (5.00)	←	**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

PHILOS 7 - Introduction to Philosophy of Mind (5.00)	←	**PHIL 1** - Introduction to Philosophy (4.00)
--- Or ---		
PHILOS 8 - Introduction to Philosophy of Science (5.00)	←	No Course Articulated
--- Or ---		
PHILOS 9 - Principles of Critical Reasoning (5.00)	←	No Course Articulated
--- Or ---		
PHILOS 23 - Meaning and Communication (5.00)	←	No Course Articulated
--- Or ---		
PHILOS 31 - Logic, First Course (5.00)	←	**PHIL 7** - Deductive Logic (4.00)

COMPTNG 10A - Introduction to Programming(C++) (5.00)	←	**CIS 27** - Programming in C++ for C/Java Programmers (4.50) **--- Or ---** **CIS 22A** - Beginning Programming Methodologies in C++ (4.50) **--- And ---** **CIS 22B** - Intermediate Programming Methodologies in C++ (4.50)
--- And ---		

SELECT TWO COURSES FROM THE FOLLOWING LIST:

COMPTNG 10B - Intermediate Programming(C++) (5.00)	←	**CIS 28** - Object Oriented Analysis and Design (4.50)
--- Or ---		
COMPTNG 10C - Advanced Programming (5.00)	←	No Course Articulated
--- Or ---		
COMPTNG 15 - Introduction to LISP and Symbolic Computation (5.00)	←	No Course Articulated
--- Or ---		
COMPTNG 16A - Python with Applications I (5.00)	←	No Course Articulated
--- Or ---		
COMPTNG 20A - Principles of Java Language with Applications (5.00)	←	No Course Articulated
--- Or ---		
COMPTNG 40A - Introduction to Programming for Internet (5.00)	←	No Course Articulated

--- Or ---		
PSYCH 20A - Matlab Programming for Behavioral Sciences (4.00)	←	No Course Articulated
--- Or ---		
PSYCH 20B - Advanced Topics in Matlab Programming for Behavioral Sciences (4.00)	←	No Course Articulated
--- Or ---		
PSYCH 30 - Web Programming for Psychology (4.00)	←	No Course Articulated
--- Or ---		
STATS 20 - Introduction to Statistical Programming with R. (4.00)	←	**CIS 44H** - R Programming (4.50)
STATS 21 - Python and Other Technologies for Data Science (4.00)	←	No Course Articulated

END OF AGREEMENT