Articulation Agreement by Major

Effective during the 2022-2023 Academic Yea

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

From: Las Positas College 2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program*.

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object–language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- · One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

*NOTE: Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the AP and IB examination credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00) CS 1 - Computing Fundamentals I (4.00) --- And ------ And ---I&C SCI 32 - Programming with Software Libraries (4.00) CS 2 - Computing Fundamentals II (4.00) --- And ------ And ---**I&C SCI 33** - Intermediate Programming (4.00) Please refer to additional important General Information CS 20 - Advanced Programming with Data Structures/C++ (4.00) section above MATH 2A - Single-Variable Calculus (4.00) **MATH 1** - Calculus I (5.00) MATH 2B - Single-Variable Calculus (4.00) **MATH 2** - Calculus II (5.00) One additional approved transferable course for the major (an No Course Articulated approved Math, Science, or CSE course): Please refer to additional important General Information

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

MATH 7 - Elementary Linear Algebra (3.50)

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I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	CS 17 - Discrete Mathematical Structures (4.00) Same-As: MATH 10
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	\leftarrow	No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	CS 1 - Computing Fundamentals I (4.00) And CS 2 - Computing Fundamentals II (4.00) And CS 20 - Advanced Programming with Data Structures/C++ (4.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	←	CS 21 - Computer Organization and Assembly Language Programming (4.00)
I&C SCI 53 - Principles in System Design (4.00)	\leftarrow	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	\leftarrow	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT