# **Articulation Agreement by Major**

Effective during the 2022-2023 Academic Year

To: University of California, Los Angeles 2022-2023 General Catalog, Quarter From: Gavilan College 2022-2023 General Catalog, Semester

### **Computer Science/B.S.**

#### **IMPORTANT MAJOR DETAILS**

Admission to the Henry Samueli School of Engineering and Applied Sciences at UCLA is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. Listed below are the lower division preparation courses for the major. All applicants must have a minimum transferable cumulative GPA of 3.4. Preparatory courses must be completed by the end of spring prior to fall enrollment. All major courses must be taken for a letter grade. HSSEAS admits students by major and does NOT consider applicants for alternate majors.

Applicants are not required to complete the HSSEAS General Education Requirements in order to be admitted, although it is beneficial for students to complete 1 course from each of the following areas: arts, humanities, social sciences, and life sciences. Applicants can fulfill the lower division General Education requirement by completion of the Intersegmental General Education Transfer Curriculum (IGETC). **Partial IGETC is NOT accepted. For more information regarding this major and UCLA's transfer selection process, visit <a href="https://www.admission.ucla.edu">www.admission.ucla.edu</a>. If you still have specific questions, you may email the HSSEAS admissions office at erkki@seas.ucla.edu.** 

PLEASE NOTE: The community college courses listed on this major agreement have been approved as <u>substitutes</u> to satisfy the <u>admission preparation</u> <u>requirements</u> for this major, but they may not be exact equivalents of the UCLA courses listed. In addition, upper division requirements for the major may be satisfied by lower division community college course(s) listed below, however, credit will be determined by the department after transfer.

#### PROGRAMMING REQUIREMENT

C++ is the Preferred language for this major, however (Java, & C) are also acceptable programming courses.

NOTE: A course equivalent to UCLA's CS 31 is acceptable to meet the programming requirement for this major.

### **LOWER DIVISION MAJOR REQUIREMENTS**

MATH 31A - Differential and Integral Calculus (4.00)	<del>-</del>	MATH 1A - Single-Variable Calculus and Analytic Geometry (4.00)
MATH 31B - Integration and Infinite Series (4.00)	<b>←</b>	MATH 1B - Single-Variable Calculus and Analytic Geometry (4.00)
MATH 32A - Calculus of Several Variables (4.00)	←	MATH 1C - Multivariable Calculus (4.00)
MATH 32B - Calculus of Several Variables (4.00)	$\leftarrow$	MATH 1C - Multivariable Calculus (4.00)
MATH 33A - Linear Algebra and Applications (4.00)	$\leftarrow$	MATH 2 - Linear Algebra (3.00)
MATH 33B - Differential Equations (4.00)	$\leftarrow$	MATH 2C - Differential Equations (3.00)
PHYSICS 1A+ 1B+1C+ 4AL or 4BL		PHYS 4A - Physics for Scientists and Engineers - Mechanics (4.00) And
		<b>PHYS 4B</b> - Physics for Scientists and Engineers - Electricity and Magnetism (4.00)
		And  PHYS 4C - Physics for Scientists and Engineers - Heat, Optics,  Modern Physics (4.00)
<b>ENGCOMP 3</b> - English Composition, Rhetoric, and Language (5.00	0) ←	ENGL 1A - Composition (4.00)
	And	
Select 1 Cours	se(s) fro	m the following
One additional course in English composition	$\leftarrow$	ENGL 1B - Composition and Literature (3.00)
		Or
		ENGL 1C - Critical Reasoning and Writing (3.00)
		Or
		PHIL 4 - Critical Thinking and Writing (3.00)
	And	
Select 1 Cours	se(s) fro	m the following

**CSIS 45** - C++ Programming I (3.00)

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**CSIS 46** - C++ Programming II (3.00)

# **STRONGLY RECOMMENDED COURSES**

COM SCI 31 - Introduction to Computer Science I (4.00)	← No Course Articulated
COM SCI 32 - Introduction to Computer Science II (4.00)	← CSIS 46 - C++ Programming II (3.00)
COM SCI 33 - Introduction to Computer Organization (5.00)	← No Course Articulated
COM SCI M51A - Logic Design of Digital Systems (4.00)	← No Course Articulated
MATH 61 - Introduction to Discrete Structures (4.00)	← MATH 16 - Discrete Mathematics (4.00)

## **END OF AGREEMENT**