Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

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** www.admission.ucla.edu. 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 _substitutes_ **to satisfy the** _admission preparation requirements_ **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

UCLA		Foothill College
MATH 31A - Differential and Integral Calculus (4.00)	←	**MATH 1A** - Calculus (5.00)
MATH 31B - Integration and Infinite Series (4.00)	←	**MATH 1B** - Calculus (5.00) --- And --- **MATH 1C** - Calculus (5.00)
MATH 32A - Calculus of Several Variables (4.00)	←	**MATH 1C** - Calculus (5.00)
MATH 32B - Calculus of Several Variables (4.00)	←	**MATH 1D** - Calculus (5.00)
MATH 33A - Linear Algebra and Applications (4.00)	←	**MATH 2B** - Linear Algebra (5.00)
MATH 33B - Differential Equations (4.00)	←	**MATH 2A** - Differential Equations (5.00)
PHYSICS 1A+ 1B+1C+ 4AL or 4BL	←	**PHYS 4A** - General Physics (Calculus) (6.00) --- And --- **PHYS 4B** - General Physics (Calculus) (6.00) --- And --- **PHYS 4C** - General Physics (Calculus) (6.00)
ENGCOMP 3 - English Composition, Rhetoric, and Language (5.00)	←	**ENGL 1A** - Composition & Reading (5.00) --- Or --- **ESLL 26** - Advanced Composition & Reading (5.00)

--- And ---

Select 1 Course(s) from the following

UCLA		Foothill College
One additional course in English composition	←	**ENGL 1B** - Composition, Critical Reading & Thinking Through Literature (5.00) --- Or --- **ENGL 1BH** - Honors Composition, Critical Reading, & Thinking Through Literature (5.00)

--- And ---

Select 1 Course(s) from the following		
One course in computer programming: C++ preferred	←	**C S 2A** - Object-Oriented Programming Methodologies in C++ (4.50)
		--- Or ---
		C S 2B - Intermediate Software Design in C++ (4.50)

COM SCI 31 - Introduction to Computer Science I (4.00)	←	**C S 2A** - Object-Oriented Programming Methodologies in C++ (4.50)
COM SCI 32 - Introduction to Computer Science II (4.00)	←	**C S 1B** - Intermediate Software Design in JAVA (4.50)
		--- Or ---
		C S 1C - Advanced Data Structures & Algorithims in JAVA (4.50)
		--- Or ---
		C S 2C - Advanced Data Structures & Algorithims in C++ (4.50)
COM SCI 33 - Introduction to Computer Organization (5.00)	←	**C S 10** - Computer Architecture & Organization (4.50)
COM SCI M51A - Logic Design of Digital Systems (4.00)	←	No Course Articulated
MATH 61 - Introduction to Discrete Structures (4.00)	←	**MATH 22** - Discrete Mathematics (5.00) Same-As: C S 18

END OF AGREEMENT