Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Madera Community 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 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 <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

ATH 5B - Math Analysis II (4.00) ATH 6 - Math Analysis III (5.00)
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ATH 6 - Math Analysis III (5.00)
ATH 17 - Differential Equations and Linear Algebra (5.00)
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HYS 4A - Physics for Scientists and Engineers (4.00) And HYS 4B - Physics for Scientists and Engineers (4.00) And HYS 4C - Physics for Scientists and Engineers (4.00)
GL 1A - Reading and Composition (4.00) Or GL 1AH - Honors Reading and Composition (4.00)

One additional course in English composition	_			
	\leftarrow	ENGL 1B - Introduction to the Study of Literature (3.00)		
		Or		
		ENGL 1BH - Honors Introduction to the Study of Literature (3.00)		
		Or		
		ENGL 2 - Critical Reading and Writing through Literature (3.00)		
		Or		
		ENGL 2H - Honors Critical Reading and Writing through Literature		
		(3.00)		
		Or		
		ENGL 3 - Critical Reading and Writing (3.00)		
		Or		
		ENGL 3H - Honors Critical Reading and Writing (3.00)		
		Or		
		PHIL 2 - Critical Reasoning and Analytic Writing (3.00)		
And				
Select 1 Course(s) from the following				
One course in computer programming: C++ preferred	\leftarrow	ENGR 40 - Programming for Scientists and Engineers (4.00)		

STRONGLY RECOMMENDED COURSES

COM SCI 31 - Introduction to Computer Science I (4.00)	←	ENGR 40 - Programming for Scientists and Engineers (4.00)
COM SCI 32 - Introduction to Computer Science II (4.00)	\leftarrow	CSCI 41 - Programming Concepts and Methodology II (4.00)
COM SCI 33 - Introduction to Computer Organization (5.00)	\leftarrow	CSCI 45 - Computer Organization and Assembly Language Programming (4.00)
COM SCI M51A - Logic Design of Digital Systems (4.00)	\leftarrow	No Course Articulated
MATH 61 - Introduction to Discrete Structures (4.00)	\leftarrow	CSCI 26 - Discrete Mathematics for Computer Science (4.00)

END OF AGREEMENT