Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

MATH 31A - Differential and Integral Calculus (4.00)	←	**MATH M25A** - Calculus with Analytic Geometry I (5.00) **--- Or ---** **MATH M25AH** - Honors: Calculus with Analytic Geometry I (5.00)
MATH 31B - Integration and Infinite Series (4.00)	←	**MATH M25B** - Calculus with Analytic Geometry II (5.00)
MATH 32A - Calculus of Several Variables (4.00)	←	**MATH M25C** - Calculus and Analytic Geometry III (5.00)
MATH 32B - Calculus of Several Variables (4.00)	←	**MATH M25C** - Calculus and Analytic Geometry III (5.00)
MATH 33A - Linear Algebra and Applications (4.00)	←	**MATH M31** - Introduction to Linear Algebra (3.00)
MATH 33B - Differential Equations (4.00)	←	**MATH M35** - Applied Differential Equations (3.00)
PHYSICS 1A+ 1B+1C+ 4AL or 4BL	←	**PHYS M20A** - Mechanics of Solids and Fluids (4.00) **--- And ---** **PHYS M20B** - Thermodynamics, Electricity and Magnetism (4.00) **--- And ---** **PHYS M20C** - Wave Motion, Optics and Modern Physics (4.00) **--- And ---** **PHYS M20AL** - Mechanics of Solids and Fluids Laboratory (1.00) **--- Or ---** **PHYS M20A** - Mechanics of Solids and Fluids (4.00) **--- And ---** **PHYS M20B** - Thermodynamics, Electricity and Magnetism (4.00) **--- And ---** **PHYS M20C** - Wave Motion, Optics and Modern Physics (4.00) **PHYS M20BL** - Thermodynamics, Electricity and Magnetism Laboratory (1.00)

ENGCOMP 3 - English Composition, Rhetoric, and Language (5.00)	←	**ENGL M01A** - English Composition (4.00) **--- Or ---** **ENGL M01AH** - Honors: English Composition (4.00)

--- And ---

Select 1 Course(s) from the following

One additional course in English composition	←	**ENGL M01B** - Literature: Critical Thinking and Composition (4.00) **--- Or ---** **ENGL M01BH** - Honors Literature: Critical Thinking and Composition (4.00) **--- Or ---** **ENGL M01C** - Critical Thinking and Composition (3.00) **--- Or ---** **ENGL M01CH** - Honors: Critical Thinking and Composition (3.00) **--- Or ---** **COMM M25** - Introduction to Rhetorical Criticism (3.00) **--- Or ---** **PHIL M05** - Critical Thinking and Analytic Writing (3.00)

--- And ---

Select 1 Course(s) from the following

One course in computer programming: C++ preferred	←	**CS M125** - Programming Concepts and Methodology I (3.00) **--- Or ---** **CS M10B** - Object-Oriented Programming Using C++ (4.00)

STRONGLY RECOMMENDED COURSES

COM SCI 31 - Introduction to Computer Science I (4.00)	←	**CS M125** - Programming Concepts and Methodology I (3.00)
COM SCI 32 - Introduction to Computer Science II (4.00)	←	**CS M135** - Programming Concepts and Methodology II (3.00)
COM SCI 33 - Introduction to Computer Organization (5.00)	←	**CS M145** - Computer Architecture and Organization (3.00)
COM SCI M51A - Logic Design of Digital Systems (4.00)	←	No Course Articulated
MATH 61 - Introduction to Discrete Structures (4.00)	←	**MATH M21** - Discrete Mathematics (3.00)

END OF AGREEMENT