Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Irvine 2022-2023 General Catalog, Quarter	From: De Anza College 2022-2023 General Catalog, Quarter

Computer Engineering, B.S.

GENERAL INFORMATION

Admission to the Henry Samueli School of Engineering is highly competitive. The most important selection criteria is the completion of the required major preparation courses and academic performance.

Required for admission:
Students must have a cumulative UC transferable GPA of 3.0 (3.4 for TAG). Students must earn a grade of C or better in all listed major preparation courses while maintaining a cumulative GPA of 3.0 in the following required courses.

- Single Variable Calculus I (C-ID MATH 210 or MATH 211)
- Single Variable Calculus II (C-ID MATH 220 or MATH 221) or 2 semester/quarters of Single Variable Calculus Sequence (C-ID MATH 900S or 910S)
- Multivariable Calculus (C-ID MATH 230)
- Ordinary Differential Equations (C-ID MATH 240) or Differential Equations and Linear Algebra (C-ID MATH 910S)
- Introduction to Linear Algebra (C-ID MATH 250) or Differential Equations and Linear Algebra (C-ID MATH 910S)
- Calculus-Based Physics for Scientists and Engineers: A (C-ID PHYS 205)
- Calculus-Based Physics for Scientists and Engineers: B (C-ID PHYS 210)
- Calculus-Based Physics for Scientists and Engineers: C (C-ID PHYS 215)
  or Calculus-Based Physics for Scientists and Engineers: ABC (C-ID PHYS 200S)
- Programming Concepts and Methodology I (C-ID comp 122) or Introduction to Programming Concepts and Methodologies for Engineers (C-ID ENGR 120)
- Circuit Analysis (C-ID ENGR 260)

Recommended for admission/Time to degree:
The following courses are not required for admission, however the degree cannot be completed in two years without them:

- Programming Concepts and Methodology II (C-ID comp 132)
- Computer Architecture and Organization (C-ID COMP 142)
- Circuit Analysis Lab (C-ID ENGR 260L)

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

For information regarding the UC Irvine Transfer Admission Guarantee program please visit TAG

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

MATH 2A - Single-Variable Calculus (4.00)	←	**MATH 1A** - Calculus (5.00) **--- Or ---** **MATH 1AH** - Calculus - HONORS (5.00)
MATH 2B - Single-Variable Calculus (4.00)	←	**MATH 1B** - Calculus (5.00) **--- Or ---** **MATH 1BH** - Calculus - HONORS (5.00)
MATH 2D - Multivariable Calculus (4.00)	←	**MATH 1D** - Calculus (5.00) **--- Or ---** **MATH 1DH** - Calculus - HONORS (5.00)
MATH 3A - Introduction to Linear Algebra (4.00)	←	**MATH 2B** - Linear Algebra (5.00) **--- Or ---** **MATH 2BH** - Linear Algebra - HONORS (5.00)
MATH 3D - Elementary Differential Equations (4.00)	←	**MATH 2A** - Differential Equations (5.00) **--- Or ---** **MATH 2AH** - Differential Equations - HONORS (5.00)
PHYSICS 7C - Classical Physics (4.00) **--- And ---** **PHYSICS 7LC** - Classical Physics Laboratory (1.00)	←	**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

--- And ---

PHYSICS 7D - Classical Physics (4.00) **--- And ---** **PHYSICS 7LD** - Classical Physics Laboratory (1.00)	←	**PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
--- And ---		
PHYSICS 7E - Classical Physics (4.00)	←	**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)
EECS 12 - Introduction to Programming (4.00)	←	**CIS 22A** - Beginning Programming Methodologies in C++ (4.50) **--- Or ---** **CIS 26A** - C as a Second Programming Language (4.50) **--- Or ---** **CIS 35A** - Java Programming (4.50) **--- Or ---** **CIS 36A** - Introduction to Computer Programming Using Java (4.50) **--- Or ---** **CIS 36B** - Intermediate Problem Solving in Java (4.50)
EECS 70A - NETWORK ANALYSIS I (4.00)	←	**ENGR 37** - Introduction to Circuit Analysis (5.00)

MAJOR PREPARATION COURSES NECESSARY TO GRADUATE IN TWO YEARS

EECS 20 - Computer Systems and C Programming (4.00)	←	**CIS 21JA** - Introduction to x86 Processor Assembly Language and Computer Architecture (4.50) **--- Or ---** **CIS 26B** - Advanced C Programming (4.50) **--- Or ---** **CIS 26BH** - Advanced C Programming - HONORS (4.50)
EECS 22 - Advanced C Programming (3.00)	←	**CIS 22B** - Intermediate Programming Methodologies in C++ (4.50) **--- Or ---** **CIS 22BH** - Intermediate Programming Methodologies in C++ - HONORS (4.50) **--- And ---** **CIS 22C** - Data Abstraction and Structures (4.50) **--- Or ---** **CIS 22CH** - Data Abstraction and Structures - HONORS (4.50)
EECS 70LA - Network Analysis I Laboratory (1.00)	←	No Course Articulated

ADDITIONAL MAJOR REQUIREMENTS

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	**MATH 22** - Discrete Mathematics (5.00)
EECS 22L - Software Engineering Project in C Language (3.00)	←	No Course Articulated
EECS 31 - Introduction to Digital Systems (4.00)	←	No Course Articulated
EECS 31L - Introduction to Digital Logic Laboratory (3.00)	←	No Course Articulated
EECS 40 - Object-Oriented Systems and Programming (4.00)	←	**CIS 35A** - Java Programming (4.50) **--- And ---** **CIS 35B** - Advanced Java Programming (4.50) **--- Or ---** **CIS 36B** - Intermediate Problem Solving in Java (4.50) **--- And ---** **CIS 35B** - Advanced Java Programming (4.50)
EECS 50 - Discrete-Time Signals and Systems (4.00)	←	No Course Articulated
EECS 55 - Engineering Probability (4.00)	←	No Course Articulated

EECS 70B - Network Analysis II (4.00) **--- And ---** **EECS 70LB** - Network Analysis II Laboratory (1.00)	←	No Course Articulated

ADDITIONAL MAJOR ELECTIVES

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	No Course Articulated
MATH 2E - Multivariable Calculus (4.00)	←	**MATH 1D** - Calculus (5.00) **--- Or ---** **MATH 1DH** - Calculus - HONORS (5.00)
PHYSICS 51A - Modern Physics (4.00)	←	**PHYS 4D** - Physics for Scientists and Engineers: Modern Physics (6.00)
PHYSICS 52A - Fundamentals of Experimental Physics (2.00)	←	**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

ENGR 7A - Introduction to Engineering I (2.00)	←	No Course Articulated
--- And ---		
ENGR 7B - Introduction to Engineering II (2.00)	←	No Course Articulated

END OF AGREEMENT