Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

Computer Science B.S.

INFORMATION AND ADVISORIES

Special Advising Note:

Transfer students are strongly advised to complete as many preparatory courses as possible for their major before enrolling at UC Davis. Preparing well for the major helps students move efficiently toward graduation and significantly reduces time to degree.

Transfer students must also meet UC transfer admission requirements. For details see the UC Davis Transfer Admission website. UC Davis requires that students complete UC transfer admission requirements by the end of Spring term prior to Fall enrollment. In order to receive priority consideration it is strongly recommended that transfer students complete UC transfer admission requirements in English and Mathematics by the end of Fall term prior to enrollment.

REQUIREMENTS FOR ADMISSION:

The Computer Science BS major is selective and requires preparatory coursework for admission. Any required courses that are offered at your current campus must be completed by the close of Spring term prior to Fall enrollment at UC Davis. If required courses are not offered at your college, you must complete them after enrolling at UC Davis.

Transfer students must earn an overall transfer GPA of 3.10 or higher to be competitive candidates for admission to this major. Strive to achieve your highest possible GPA in order to be most competitive. Candidates must complete courses comparable to the following UC Davis courses with a GPA of at least 3.40 for each of two course groups. It is recommended that candidates have already achieved the minimum required GPAs in the course(s) from the groups below that have been completed at the time of application and through the transfer academic update filing period. Courses must be taken for a letter grade, with no grade less than C. Advanced Placement (AP) or International Baccalaureate (IB) Higher Level examinations may satisfy UC Davis course equivalents.

-Engineering Computer Science 020, 036A, 050, 036C
-Mathematics 021A/B/C

Intersegmental General Education Transfer Curriculum (IGETC)/UC Davis General Education (GE) Note:

Students have two choices for selection of a GE pattern: IGETC or UC Davis GE. IGETC is available only at California community colleges and works well for students planning to complete undergraduate degrees in the College of Letters and Science at UC Davis. For students pursuing a Bachelor of Science degree, IGETC also satisfies the Natural Sciences and Mathematics Area Breadth requirement of the College. UC Davis accepts partial IGETC certification and IGETC for STEM. Students not planning to complete IGETC should see important information about the UC Davis GE pattern. See additional details about IGETC/GE at ASSIST. The Dean's Office of your undergraduate college at UC Davis determines whether you have satisfied the GE requirement. See a UC Davis academic advisor to understand how to complete all of the GE components.

Advanced Placement (AP) and International Baccalaureate (IB) Examination Note:

AP and IB examination credit policies are detailed in the UC Davis General Catalog. Quick reference charts for AP and IB are also available here.

MAJOR PREPARATION

- **Please carefully review Information and Advisories and Course Articulation Details.**

COURSE ARTICULATION DETAILS

- **Please note that the community college's Computer Science courses may not be identical to UC Davis courses. Community college students, upon transfer to UC Davis, may need to make up any topic or language deficiencies.**
- **Important note: Due to the limitations of the ASSIST platform at this time, it is important to view both the department and major agreements for a complete picture of the articulation arrangements. *Please refer to the appropriate department agreements in conjunction with the major agreement below.***
- **Please check the UC Transferability Lists on ASSIST for information on any credit limitations.**
- **Attention: Articulation agreements are California Community College *specific*. Lower division courses that are taken at multiple California Community Colleges, including those within a shared district, may articulate differently from what is indicated in the department or major agreements. It is recommended that series courses be completed at the same California Community College. Please contact your California Community College counselor for more information.**

PREPARATION COURSES FOR THE MAJOR

Complete entire sequence at same institution prior to transfer

ECS 020 - Discrete Mathematics For Computer Science (4.00)	←	**MATH 22** - Discrete Mathematics (5.00) **--- Or ---** **MATH 22H** - Discrete Mathematics - HONORS (5.00)
ECS 036A - Programming & Problem Solving (4.00)	←	**CIS 22A** - Beginning Programming Methodologies in C++ (4.50) **--- Or ---** **CIS 22B** - Intermediate Programming Methodologies in C++ (4.50) • *Course is articulated in more than one agreement but credit can only apply to one* **--- Or ---** **CIS 22BH** - Intermediate Programming Methodologies in C++ - HONORS (4.50) • *Course is articulated in more than one agreement but credit can only apply to one* **--- Or ---** **CIS 26A** - C as a Second Programming Language (4.50) **--- Or ---** **CIS 26B** - Advanced C Programming (4.50) **--- Or ---** **CIS 27** - Programming in C++ for C/Java Programmers (4.50) • *Course is articulated in more than one agreement but credit can only apply to one* **--- Or ---** **CIS 35A** - Java Programming (4.50) • *Course is articulated in more than one agreement but credit can only apply to one* **--- Or ---** **CIS 36A** - Introduction to Computer Programming Using Java (4.50)
ECS 036B - Software Development & Object-Oriented Programming in C++ (4.00)	←	**CIS 22B** - Intermediate Programming Methodologies in C++ (4.50) • *Course is articulated in more than one agreement but credit can only apply to one* **--- Or ---** **CIS 22BH** - Intermediate Programming Methodologies in C++ - HONORS (4.50) • *Course is articulated in more than one agreement but credit can only apply to one* **--- Or ---** **CIS 29** - Advanced C++ Programming (4.50) **--- Or ---** **CIS 35A** - Java Programming (4.50) • *Course is articulated in more than one agreement but credit can only apply to one* **--- Or ---** **CIS 36B** - Intermediate Problem Solving in Java (4.50)
ECS 036C - Data Structures, Algorithms, & Programming (4.00)	←	**CIS 22C** - Data Abstraction and Structures (4.50) • *Course is articulated in more than one agreement but credit can only apply to one* **--- Or ---** **CIS 22CH** - Data Abstraction and Structures - HONORS (4.50) • *Course is articulated in more than one agreement but credit can only apply to one*
ECS 050 - Computer Organization & Machine-Dependent Programming (4.00)	←	**CIS 21JA** - Introduction to x86 Processor Assembly Language and Computer Architecture (4.50)

ADDITIONAL MAJOR PREPARATION COURSES

Highly recommended to complete the entire series
If the entire sequence is not completed prior to transfer, students must consult an advisor prior to enrollment
Complete entire sequence at same institution prior to transfer

MAT 021A - Calculus (4.00)	←	**MATH 1A** - Calculus (5.00) • *Credit for articulated courses in one series only* **--- Or ---** **MATH 1AH** - Calculus - HONORS (5.00) • *Credit for articulated courses in one series only*
MAT 021B - Calculus (4.00)	←	**MATH 1B** - Calculus (5.00) • *Credit for articulated courses in one series only* **--- Or ---** **MATH 1BH** - Calculus - HONORS (5.00) • *Credit for articulated courses in one series only*
MAT 021C - Calculus (4.00)	←	**MATH 1C** - Calculus (5.00) • *Credit for articulated courses in one series only* **--- Or ---** **MATH 1CH** - Calculus - HONORS (5.00) • *Credit for articulated courses in one series only*

Select 1 Course from the following

MAT 022A - Linear Algebra (3.00)	←	**MATH 2B** - Linear Algebra (5.00) **--- Or ---** **MATH 2BH** - Linear Algebra - HONORS (5.00)
--- Or ---		
MAT 027A - Linear Algebra with Applications to Biology (4.00) Same-As: BIS 027A	←	No Course Articulated
--- Or ---		
MAT 067 - Modern Linear Algebra (4.00)	←	No Course Articulated

ADDITIONAL MAJOR REQUIREMENTS

Select 3 Course(s) from the following

BIS 002A - Introduction to Biology: Essentials of Life on Earth (5.00)	←	**BIOL 6B** - Cell and Molecular Biology (6.00)
BIS 002B - Introduction to Biology: Principles of Ecology & Evolution (5.00)	←	**BIOL 6C** - Ecology and Evolution (6.00) **--- Or ---** **BIOL 6CH** - Ecology and Evolution - HONORS (6.00)
BIS 002C - Introduction to Biology: Biodiversity & the Tree of Life (5.00)	←	**BIOL 6A** - Form and Function in the Biological World (6.00) **--- Or ---** **BIOL 6AH** - Form and Function in the Biological World - HONORS (6.00)
CHE 002A - General Chemistry (5.00)	←	**CHEM 1A** - General Chemistry (5.00) • *Effective next fall, this articulation will be revised* **--- Or ---** **CHEM 1AH** - General Chemistry - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one* • *Effective next fall, this articulation will be revised*
CHE 002B - General Chemistry (5.00)	←	**CHEM 1B** - General Chemistry (5.00) • *Effective next fall, this articulation will be revised* **--- Or ---** **CHEM 1BH** - General Chemistry - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one* • *Effective next fall, this articulation will be revised*
CHE 002C - General Chemistry (5.00)	←	**CHEM 1C** - General Chemistry and Qualitative Analysis (5.00) **--- Or ---** **CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one*

CHE 004A - General Chemistry for the Physical Sciences & Engineering (5.00)	←	**CHEM 1AH** - General Chemistry - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one*
CHE 004B - General Chemistry for the Physical Sciences & Engineering (5.00)	←	**CHEM 1BH** - General Chemistry - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one*
CHE 004C - General Chemistry for the Physical Sciences & Engineering (5.00)	←	**CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one*
PHY 009A - Classical Physics (5.00)	←	**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)
PHY 009B - Classical Physics (5.00)	←	**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)
PHY 009C - Classical Physics (5.00)	←	**PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)

END OF AGREEMENT