Articulation Agreement by Major

Effective during the 2021-2022 Academic Year

To: University of California, Davis	From: Diablo Valley College
2021-2022 General Catalog, Quarter	2021-2022 General Catalog, Semester

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

Transfer Admission Guarantee (TAG) Note:

GPA and other requirements to obtain a UC Davis TAG may differ from those stated here for general transfer admission to the major.
Visit http://tag.ucdavis.edu for details regarding UC Davis TAG.

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.**

- **Students cannot complete major preparation by taking both non-honors and honors version of the same chemistry course. Please see a UCD advisor for more information.**

- **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 advisor for more information.

PREPARATION COURSES FOR THE MAJOR

Complete entire sequence at same institution prior to transfer

ENG CS 020 - Discrete Mathematics For Computer Science (4.00)	←	**MATH 195** - Discrete Mathematics (4.00)
ENG CS 036A - Programming & Problem Solving (4.00)	←	**COMSC 110** - Introduction to Programming (4.00)
		--- Or ---
		COMSC 165 - Advanced Programming with C and C++ (4.00)
		--- Or ---
		COMSC 255 - Programming with Java (4.00)
		--- Or ---
		ENGIN 135 - Programming for Scientists and Engineers (4.00)
ENG CS 036B - Software Development & Object-Oriented Programming in C++ (4.00)	←	**COMSC 200** - Object Oriented Programming C++ (4.00)
ENG CS 036C - Data Structures, Algorithms, & Programming (4.00)	←	**COMSC 210** - Program Design and Data Structures (4.00)
ENG CS 050 - Computer Organization & Machine-Dependent Programming (4.00)	←	**COMSC 260** - Assembly Language Programming/Computer Organization (4.00)

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

MATH 021A - Calculus (4.00)	←	**MATH 192** - Analytic Geometry and Calculus I (5.00)
MATH 021B - Calculus (4.00)	←	**MATH 193** - Analytic Geometry and Calculus II (5.00)
MATH 021C - Calculus (4.00)	←	**MATH 292** - Analytic Geometry and Calculus III (5.00)

Select 1 Course from the following

MATH 022A - Linear Algebra (3.00)	←	**MATH 194** - Linear Algebra (3.00)
		--- Or ---
MATH 027A - Linear Algebra with Applications to Biology (4.00) Same-As: BIOLSCI 027A	←	No Course Articulated
		--- Or ---
MATH 067 - Modern Linear Algebra (4.00)	←	No Course Articulated

ADDITIONAL MAJOR REQUIREMENTS

Select 3 Course(s) from the following

BIOLSCI 002A - Introduction to Biology: Essentials of Life on Earth (5.00)	←	**BIOSC 130** - Principles of Cellular and Molecular Biology (5.00)
BIOLSCI 002B - Introduction to Biology: Principles of Ecology & Evolution (5.00)	←	**BIOSC 131** - Principles of Organismal Biology, Evolution, and Ecology (5.00)
BIOLSCI 002C - Introduction to Biology: Biodiversity & the Tree of Life (5.00)	←	**BIOSC 131** - Principles of Organismal Biology, Evolution, and Ecology (5.00)
CHEM 002A - General Chemistry (5.00)	←	**CHEM 120** - General College Chemistry I (5.00)

CHEM 002B - General Chemistry (5.00)	←	**CHEM 120** - General College Chemistry I (5.00)
		--- And ---
		CHEM 121 - General College Chemistry II (5.00)
		• *Complete entire sequence at same institution prior to transfer*
CHEM 002C - General Chemistry (5.00)	←	**CHEM 121** - General College Chemistry II (5.00)
CHEM 002AH - Honors General Chemistry (5.00) • ***REFER TO TOP OF AGREEMENT***	←	No Course Articulated
CHEM 002BH - Honors General Chemistry (5.00) • ***REFER TO TOP OF AGREEMENT***	←	No Course Articulated
CHEM 002CH - Honors General Chemistry (5.00) • ***REFER TO TOP OF AGREEMENT***	←	No Course Articulated
PHYSICS 009A - Classical Physics (5.00)	←	**PHYS 130** - Physics for Engineers and Scientists A: Mechanics and Wave Motion (4.00)
PHYSICS 009B - Classical Physics (5.00)	←	**PHYS 230** - Physics for Engineers and Scientists B: Heat and Electro-Magnetism (4.00)
		--- And ---
		PHYS 231 - Physics for Engineers and Scientists C: Optics and Modern Physics (4.00)
		• *Complete entire sequence at same institution prior to transfer*
PHYSICS 009C - Classical Physics (5.00)	←	**PHYS 230** - Physics for Engineers and Scientists B: Heat and Electro-Magnetism (4.00)

END OF AGREEMENT