

FOR TRANSFER STUDENTS

PROGRAM OVERVIEW

Advances in technology and rapid growth of the information economy have made computing a ubiquitous and enabling science in nearly all disciplines across engineering, science, business, education, arts, and the humanities. The use of computing technology in diverse fields is only expected to increase as an explosion of available data and increased computing power leads to a boom in many emerging technologies such as artificial intelligence, machine learning, internet of things (IoT), robotics, data analytics, and quantum and cloud computing.

The Computer Science B.A. degree is designed with a modular approach and a large number of free elective credits that allows students to customize their program by combining a strong grounding in computer science with an area of concentration aligned in other academic disciplines aligned with their interest. Students are encouraged to use their free electives to pursue minors and dual majors in other academic disciplines.

ACADEMIC ADVISING

Students admitted to the College of Engineering, Design and Computing (CEDC) should to meet with an advisor in their specific department and should contact that department to schedule an appointment.

Computer Science & Engineering

ComputerScience@ucdenver.edu

Visit the academic advising website [here](#)

1380 Lawrence Street Center, 8th Floor

303-315-1408

GENERAL GRADUATION REQUIREMENTS & POLICIES

All College of Engineering, Design and Computing (CEDC) students are required to complete the following minimum general graduation requirements:

1. Complete a minimum of 120 credit hours.
2. Achieve a minimum 2.0 grade point average (GPA) for all courses attempted, for all required courses and for all courses taken within the student's major department.
3. Complete all [CU Denver Core](#), CEDC, and major requirements.
4. Complete a minimum of 30 credit hours as a declared CEDC student in good standing at CU Denver.
5. Complete at least the final two semesters as an enrolled CEDC student.

PROGRAM REQUIREMENTS & POLICIES

The following program requirements are based on degree requirements for the current Catalog year at CU Denver and are subject to change. Students are responsible for completing degree requirements based on the Catalog year for which they are admitted.

Students are responsible for meeting with their CU Denver academic advisor in the department to confirm major requirements. Student completing the Computer Science B.A. degree are required to complete the following minimum program requirements:

1. Complete 24 credit hours of **CU Denver Core Curriculum coursework**.
2. Complete a minimum of 7 credit hours of **math coursework**.
3. Complete a minimum of 8 credit hours of **science coursework**.
4. Complete a minimum of 43 credit hours of **Computer Science coursework**.
5. Complete 38 credit hours of **free elective coursework**.

COURSEWORK THAT CAN BE COMPLETED AT PREVIOUS INSTITUTION

The following is a "bucket" of requirements students can complete prior to transferring to CU Denver, including equivalent Colorado Community College System (CCCS) courses. To determine the equivalencies of non-computer science courses to be completed at non-CU Denver institutions, students can visit <https://transferology.com/school/ucdenver>. **It is critical students connect with a CU Denver academic advisor to ensure planned courses will transfer and apply to CU Denver degree requirements.** All non-CU Denver coursework must be completed with a C- or better to be eligible for transfer.

Students interested in completing an Associate (A.A. or A.S.) Degree or a [Colorado Statewide Transfer Articulation Agreement or Degree with Designation \(DWD\)](#) must work with their community/junior college academic advisor to create an academic plan that accounts for all degree or transfer articulation agreement requirements. Colorado Community College Students may also explore the option to complete [Reverse Transfer](#) at CU Denver.

Computer Science

Bachelor of Arts (B.A.) – Catalog Year 2026-2027

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CU Denver Requirements	CU Denver Credits	CCCS Equivalent Courses & Notes	CCCS Credits
CU Denver Core Curriculum Requirements	24		
ENGL 1020 – Core Composition I	3	ENG 1021	3
ENGL 2030 – Core Composition II	3	ENG 1022	3
Arts	3	GT-AH	3
Humanities	3	GT-AH or GT-HI	3
Behavioral Sciences	3	GT-SS	3
Social Sciences	3	GT-SS or GT-HI*	3
International Perspectives	3	Additional GT-AH, HI, SS* (<i>see note below</i>)	3
Cultural Diversity	3	<i>*To be completed at CU Denver. This requirement must be completed with an upper-division course and CCCS courses will not apply.</i>	
Required Mathematics Courses	12		
MATH1401 Calculus I	4	GT-MA1 (MAT 2410)	5
MATH2411 Calculus II	4	GT-MA1 (MAT 2420)	5
MATH3195 Linear Algebra and Differential Equations	4	MAT 2562	4
Required Science	10	<i>For choice 1 & 2 addtl credits: CS course, science above chosen sequence, math beyond Calc II or ENGR elective</i>	
*Choice 1: BIOL 2051 & 2071; BIOL 2061 & 2081	8	GT-SC1 (1111 & BIO 1112)	10
*Choice 2: CHEM 2031 & 2038; CHEM 2061 & 2068	9	GT-SC1 (CHE 1111 & CHE 1112)	10
Free Electives		Students select any approved course that will transfer to CU Denver and/or to help them complete their associate's degree.	11
Total Hours			60

*The applicability of Guaranteed Transfer (GT Pathways) courses to specific CU Denver Core Curriculum requirements requires completion of a block of five courses: two GT-AH courses; one GT-HI course; one GT-SS course; and one additional GT-AH, GT-HI, or GT-SS course.

SAMPLE PLAN – COURSEWORK TO BE COMPLETED AT CU DENVER

Based on successful completion of applicable transfer credits and the complete “bucket” of requirements outlined above, students would have the following remaining to complete at CU Denver. At CU Denver, students must tailor this plan based on the evaluation of previously completed college coursework (e.g., AP, IB, CLEP, dual/concurrent enrollment, and transfer credit), course availability, individual preferences related to course load, summer term courses, part-time or full-time student status, or add-on programs such as minors or double-majors.

Students deviating from this plan must fulfill course prerequisites and must meet with the academic advisor in their department to confirm degree requirements. Students intending to transfer to CU Denver to pursue a Computer Science B.A. degree should note the following:

1. The College of Engineering, Design and Computing has a competitive admissions process. Students may be admitted to CU Denver but not the College of Engineering, Design and Computing. Such students may work with CU Denver’s Center for Undergraduate Exploration & Advising (CUE&A) to identify an alternative major and/or program of study.
2. Colorado Community College students should transfer to CU Denver once they have met the College of Engineering, Design and Computing’s admission requirements. They should not necessarily complete an associate’s degree.

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YEAR ONE

Semester 1	CRS
CSCI 2421 DATA STRUCTURES & PROGRAM DESIGN	3
CSCI 2511 DISCRETE STRUCTURES	3
FREE ELECTIVE	3
FREE ELECTIVE	3
FREE ELECTIVE	3

Semester 2	CRS
CSCI 3287 DATABASE SYSTEMS	3
CSCI 3412 ALGORITHMS	3
CU CORE CULTURAL DIVERSITY	3
FREE ELECTIVE	3
FREE ELECTIVE	3

YEAR TWO

Semester 3	CRS
CSCI 3508 SOFTWARE ENGINEERING	3
CS TECHNICAL ELECTIVE	3
CS TECHNICAL ELECTIVE	3
CS TECHNICAL ELECTIVE	3
FREE ELECTIVE	3

Semester 4	CRS
CS TECHNICAL ELECTIVE	3
FREE ELECTIVE	3

YEAR THREE

Semester 5	CRS
CSCI 4034 THEORETICAL FOUNDATIONS OF COMPUTER SCIENCE	3
CSCI 4551 PARALLEL & DISTRIBUTED SYSTEMS	3
CS BREADTH: SENIOR DESIGN 1	3
CS BREADTH	3
CS TECHNICAL ELECTIVE	3

Semester 6	CRS
CSCI 4591 COMPUTER ARCHITECTURE	3
CS BREADTH: SENIOR DESIGN 2	3
CS BREADTH	3
CS TECHNICAL ELECTIVE	3

Total Hours at CU Denver: 60