

FOR TRANSFER STUDENTS

PROGRAM OVERVIEW

Earning a bachelor of science in civil engineering is the start of a long and successful career. Given the increase in population, the continuing development of second- and third-world countries and the eventual degradation of city infrastructure, civil engineers will always be in demand. A degree in civil engineering opens the door to many areas of study including transportation and highways, hydrology and wastewater systems, structures and bridges, environmental and sustainability issues, and geotechnical and earth design.

ACADEMIC ADVISING

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

Advisor: Roxann Mackenzie Hayes, PE

Email: roxann.hayes@ucdenver.edu

Phone: 303-315-7594

Office Location: 1200 Larimer Street, Suite 2605, Denver, CO 80204

Drop-in hours: Mondays 10am-12pm during the academic year

Students admitted to the College of Engineering, Design and Computing as pre-engineers or who are undecided should meet with a college academic advisor.

Engineering Student Services Center (ESSC)

ESSC@ucdenver.edu

Visit the academic advising website [here](#)

North Classroom 2605

303-315-7510

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 semester 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 CEDC 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 the faculty advisor in their department to confirm major requirements. Students completing the Civil Engineering B.S. Degree are required to complete the following minimum program requirements:

1. Complete a minimum of 130 semester hours
2. Complete 24 semester hours of **CU Denver Core Curriculum coursework**.
3. Complete 33 semester hours of Math, Chemistry, and Physics.
4. Take the Fundamentals of Engineering exam prior to graduation.

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 courses to be completed at non-CU Denver institutions, students can visit www.transferology.com. **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.

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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 121	3
ENGL 2030 – Core Composition II	3	ENG 122	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 and Basic Sciences Courses	33		
MATH 1401 Calculus I	4	GT-MA1 (MAT 201)	5
MATH 2411 Calculus II	4	GT-MA1 (MAT 202)	5
MATH 2421 Calculus III	4	GT-MA1 (MAT 203)	4
MATH 3195 Linear Algebra and Differential Equations	4	MAT 266	4
CVEN 3611 Statistics for Engineers	3	MAT 135	3
ENGR 1130 Engineering Chemistry	5	GT-SC1 (CHE 111)	5
PHYS 2311 & 2321 General Physics I with lab	5	GT-SC1 (PHY 211)	5
PHYS 2331 Calculus-based Physics II	4	GT-SC1 (PHY 212)	5
Total Hours:	57		

*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 course; 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 faculty advisor in their department to confirm degree requirements. Students intending to transfer to CU Denver to pursue a Civil Engineering B.S. degree should note the following:

1. The College of Engineering, Design and Computing has a competitive admissions process. Student may be admitted to CU Denver but not the College of Engineering, Design and Computing. Such students may work with CU Denver’s Academic Success and Advising Center 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.

Year Three	Fall	CRS
	CVEN 1025 Civil Engineering Graphics	3
	CVEN 1067 Intro to Civil Engineering	1
	CVEN 2121 Analytical Mechanics I	3
	CVEN 2212 Engineering Surveying	2
	CVEN 3602 Transportation Engineering	3
	TOTAL	12

Spring		CRS
Cultural Diversity Core Curriculum		3
CVEN 3121 Mechanics of Materials		3
CVEN 3141 Intro to Structural Materials		2
CVEN 3401 Intro to Environmental Engineering		3
MATH 2421 Calculus III		4
	TOTAL	15

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Year Four	Fall	CRS
	CVEN 3111 Analytical Mechanics II	3
	CVEN 3313 Fluid Mechanics	3
	CVEN 3505 Structural Analysis	3
	CVEN 3718 Geotechnical Engineering I	3
	PHYS 2321 Calculus-based Physics II	4
	TOTAL	16

Spring	CRS
CVEN 3323 Hydrosystems	3
CVEN 3414 Water Supply & Distribution	3
CVEN 4728 Geotechnical Engineering II	2
MATH 3195 Linear Algebra & Differential Equations	4
1 Design Elective	3
TOTAL	15

Year Five	Fall	CRS
	CVEN 4025, CVEN 4077, or CVEN 4087	3
	1 Design Elective	3
	1 Technical Elective	3
	CVEN 3611 Engineering Statistics	3
	CVEN 4230 Construction Engineering	3
TOTAL	15	

Spring	CRS
CVEN 4000 Senior Seminar	0
CVEN 4067 Senior Design	3
2 Design Electives	6
1 Technical Elective	3
TOTAL	12

Total Hours at CU Denver: 85