

Construction Engineering and Management

Bachelor of Science (B.S.) – Catalog Year 2026-2027

FOR TRANSFER STUDENTS

PROGRAM OVERVIEW

Earning a Bachelor of Science in construction engineering and management provides the foundation for a financially rewarding, dynamic and exciting career. Construction engineers are in high demand in the USA and worldwide due to increasing need for infrastructure improvement projects and new construction. Most students earning the B.S. in CEM will be eligible to take the Fundamentals of Engineering (FE) exam and eventually may become a licensed professional engineer (PE). This unique degree program integrates courses from four interdisciplinary fields: engineering, construction, business, and architecture. Graduates are sought by a range of general and specialty contractors, engineering, management and consulting firms, developers, builders, and construction manufacturing/supply companies as well as public organizations.

ACADEMIC ADVISING

Email: liv.lindenberg@ucdenver.edu

Phone: 303-315-7160

Office Location: North Classroom 2506

GRADUATION REQUIREMENTS & POLICIES

All CU Denver Engineering students are required to complete the following minimum general graduation requirements:

1. Complete a minimum of 127 semester hours.
2. Achieve a minimum 2.0 CU cumulative grade point average (GPA).
3. Complete all college and major requirements.
4. Residency: complete a minimum of 30 CU Denver hours in good standing at CU Denver.
5. Terminal Residency: complete at least the final two semesters as an enrolled CEDC student

PROGRAM REQUIREMENTS & POLICIES

Students completing the Construction Engineering and Management B.S. degree are required to complete the following minimum program requirements:

1. Complete 24 semester hours of CU Denver Core Curriculum coursework.
2. Complete 30 semester hours of Math and Science.
3. Complete a specialty in one Engineering Science and Design topic with at least 15 credits.
4. Achieve a minimum 2.0 CU cumulative grade point average (GPA) in all major courses.

Courses	Credits	Notes
* Course prerequisites change regularly. Students are responsible for consulting advisors and the class schedule in the student portal for prerequisite information. *		
Required CU Denver Core Curriculum Coursework	24	
Intellectual Competencies: ENGL 1020+ENGL 2030	6	
Humanities and the Arts	6	
Behavioral Sciences	3	
Social Sciences	3	
Cultural Diversity	3	
International Perspectives	3	
Required Math and Science Coursework	30	
MATH 1401 Calculus I	4	
MATH 2411 Calculus II	4	
Statistics course	3	MATH 2830, MATH 3800, CVEN 3611, ELEC 3817
PHYS 2311 Calculus-based Physics I	4	
PHYS 2321 Calculus-based Physics Lab I	1	
ENGR 1130 Engineering Chemistry	5	
Additional math and science	9	
Required Architecture & Business Coursework	9	
ARCH 3330 Building Systems I	3	
ARCH 4440 Building Systems II	3	
BMIN 1000 Introduction to Business	3	Or BLAW 3300 Construction Law & Contracts
Required Engineering Coursework	46	
CEMT 1000 Introduction to Construction Management	1	Or CVEN 1067 Intro to Civil Engineering
CEMT 2100 Construction Mgmt Fundamentals	3	
CEMT 2300 Heavy Civil Construction & Equipment	3	
CEMT 3100 Field Engineering & Management	3	
CEMT 3231 Construction Materials and Methods	3	

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CEMT 4067 Senior Capstone	3	
CEMT 4232 Construction Planning and Controls	3	
CEMT 4233 Construction Cost Estimating	3	
CEMT 4234 Sustainable Construction	3	
CEMT 4236 Project Management	3	
CEMT 4240 Building Information Modeling	3	
CEMT 4242 Construction Safety	3	
CEMT 4939 Internship	1	Supervised internship course; 3-month minimum.
CVEN 1025 Civil Engineering Graphics	3	
CVEN 2214 Surveying	1	
CVEN 2215 Surveying Lab	1	
ENGR 1200 Engineering Design	3	Or ARCH 1110 Intro to Architecture
ENGR 1100 Computational Foundations	3	
Engineering Science and Design coursework	15	Complete 15 credits in an approved Civil, Computer Science, Electrical, or Mechanical Engineering specialty. Students should select a specialty and begin coursework by the sophomore year.
Technical Elective	3	

TRANSFER NOTES AND A SAMPLE ACADEMIC PLAN OF STUDY

The following academic plan is a sample pathway to completing degree requirements for this major. Students should tailor this plan based on previously completed college coursework (e.g., AP, dual/concurrent enrollment, and transfer credit), course availability, and individual preferences related to course load, schedules, 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 an engineering 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 to 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.

TO BE COMPLETED AT THE PARTICIPATING COLORADO COMMUNITY COLLEGE

Semester 1	CRS
Arts & Humanities (GT-AH1, AH2, AH3, or AH4) 1 of 2	3
ENG 1021 English Communication I	3
MAT 1340 College Algebra	4
CHE 1111 General College Chemistry	5
TOTAL	15

Semester 2	CRS
MAT 1420 College Trigonometry	5
ENG 1022 English Communication II	3
BIO 1111 or CHE 1112 or GEY 1111	5
Arts & Humanities (GT-AH1, AH2, AH3, or AH4) 2 of 2	3
TOTAL	16

Semester 3	CRS
BUS 1015 Introduction to Business	3
MAT 2410 Calculus I	5
Social & Behavioral Science (GT-SS1, SS2, or SS3) 1 of 2	3
International Perspectives (see transferology.com)	3
TOTAL	14

Semester 4	CRS
MAT 2420 Calculus II	5
PHY 2111 Calc. Based Physics I	5
Social & Behavioral Science (GT-SS1, SS2, or SS3) 2 of 2	3
TOTAL	13

TO BE COMPLETED AT UNIVERSITY OF COLORADO DENVER

Semester 5	CRS
CEMT 1000 Intro to Construction Management	1
CEMT 2100 Construction Mgmt Fundamentals	3
CEMT 2300 Heavy Civil Construction & Equipment	3
ENGR 1200 Engineering Design	3
Engineering Science and Design	3
TOTAL	13

Semester 6	CRS
CEMT 3100 Field Engineering & Management	3
CVEN 1025 Civil Engineering Graphics	3
CVEN 2214 and 2215 Surveying and Lab	2
ENGR 1100 Computational Foundations	3
Engineering Science and Design	3
TOTAL	14

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Semester 7	CRS
ARCH 3330 Building Systems I	3
CEMT 3231 Construction Materials and Methods	3
Cultural Diversity Core Curriculum	3
Statistics Course	3
Engineering Science and Design	3
TOTAL	15

Semester 9	CRS
Technical Elective	3
CEMT 4236 Project Management	3
CEMT 4240 Building Information Modeling	3
CEMT 4242 Construction Safety	3
CEMT 4939 Internship	1
TOTAL	13

Semester 8	CRS
ARCH 4440 Building Systems II	3
CEMT 4232 Construction Planning and Controls	3
Engineering Science and Design	3
Math or Science	5
TOTAL	14

Semester 10	CRS
CEMT 4067 Senior Capstone	3
CEMT 4233 Construction Cost Estimating	3
CEMT 4234 Sustainable Construction	3
Engineering Science and Design	3
TOTAL	12