

CONSTRUCTION ENGINEERING AND MANAGEMENT, BS

Introduction

Please click here (<http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-engineering-design-computing/civil-engineering/>) to see Civil Engineering department information.

The construction engineering and management bachelor of science offers the rigors of engineering problem-solving and design with business and management courses, coupled with construction engineering and management courses. Students receive an innovative interdisciplinary education that combines coursework in engineering, construction, business and architecture.

Program Delivery

- This is an on-campus program.

Declaring This Major

- Click here (<http://catalog.ucdenver.edu/cu-denver/undergraduate/records-registration/registration/declare-change-major-minor/>) to go to information about declaring a major.

General Requirements

To earn a degree, students must satisfy all requirements in each of the areas below, in addition to their individual major requirements.

- CU Denver General Graduation Requirements (<http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-engineering-design-computing/civil-engineering/construction-engineering-management-bs/o/cu-denver/undergraduate/graduation/general-graduation-requirements/>)
- CU Denver Core Curriculum (<http://catalog.ucdenver.edu/cu-denver/undergraduate/graduation-undergraduate-core-requirements/>)
- College of Engineering, Design and Computing Graduation Requirements (<http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-engineering-design-computing/#graduationrequirements>)
- Click here (<http://catalog.ucdenver.edu/cu-denver/undergraduate/academic-policies-procedures/>) for information about Academic Policies

Program Requirements

- Students must maintain a minimum 2.0 GPA in all courses applying to major requirements.

Code	Title	Hours
CU Denver Core Curriculum		
Select 25 credits		25
Architecture & Business		
ARCH 3330	Building Systems I	3
ARCH 4440	Building Systems II	3
BMIN 1000	Introduction to Business	3
Engineering		

CVEN 1025	Civil Engineering Graphics and Computer Aided Design	3
or MECH 1025	CAD and Graphics for Mechanical Engineering	
CVEN 2212	Surveying for Construction and Engineering	2
ENGR 1200	Fundamentals of Engineering Design Innovation	3
ENGR 1100	Fundamentals of Computational Innovation	3
or IWKS 2300	Fundamentals of Computational Innovation	

Construction		
CEMT 1000	Introduction to Construction Management	1
CEMT 2100	Construction Management Fundamentals	3
CEMT 2300	Heavy Civil Construction and Equipment	3
CEMT 3100	Field Engineering and Management	3
CEMT 4067	Construction Senior Capstone	3
CEMT 4231	Construction Materials and Methods	3
CEMT 4232	Construction Planning and Control	3
CEMT 4233	Construction Cost Estimating	3
CEMT 4234	Sustainable Construction	3
CEMT 4236	Project Management Systems	3
CEMT 4240	Building Information Modeling (BIM)	3
CEMT 4242	Construction Safety	3
CEMT 4939	Internship	1

Engineering Specialty Science and Design		
Select 15 credits ¹		15

Math and Science		
MATH 1401	Calculus I	4
MATH 2411	Calculus II	4
ENGR 1130	Chemistry for Engineers	5
PHYS 2311	General Physics I: Calculus-Based	4
PHYS 2321	Intro Experimental Phys Lab I	1
Select one of the following:		3

CVEN 3611	Engineering Statistics	
MATH 2830	Introductory Statistics	
MATH 3800	Probability and Statistics for Engineers	
ELEC 3817	Engineering Probability and Statistics	
BANA 2010	Business Statistics	

Select an additional 9 credits hours of math and science ²		9
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Electives		
Select one elective course in math, science, architecture, business, engineering, construction or technical communication.		3

Total Hours		128
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¹ Students must meet with an advisor to determine an appropriate course sequence from the following areas:

- Civil Engineering (must take at least 1 design class)
- Computer Science
- Electrical Engineering (must take at least 1 design class)
- Mechanical Engineering (must take at least 1 design class)

² Specific math and science courses are prerequisites to some Engineering Specialty courses. Please consult with an advisor.

Note

Up to two 5000-level CEMT or CVEN courses taken at CU Denver for the BS can be applied to a CE Master's degree at CU Denver if relevant to

the student's Master's degree emphasis as determined by the student's Master's degree advisor.

To review the Degree Map for this program, please visit our website (<https://www.ucdenver.edu/student/advising/undergraduate/degree-maps/cedc/>).