

Want to earn your Master of Engineering in civil engineering in one year of full-time study beyond your Bachelor of Science in civil engineering? Then take a look at our 4 + 1 program.

There are many reasons to consider a master's degree:

- Gain top-notch training in your chosen civil engineering specialty.
- Become an expert in your chosen thesis (or report) research.
- Position yourself in a competitive employment market.
- Earn 9-13% more than those with only a bachelor's degree.



The Master of Engineering program in **construction engineering and management** provides the necessary decision-making skills to support complex construction projects and subsequent management throughout their useful life. Construction engineering and management concerns the design, planning and management of the construction, maintenance and disposal of structures, infrastructure, transportation systems, site work, and commercial, industrial, residential and environmental projects (for example: highways, bridges, airports, buildings, dams, reservoirs, light and high-speed rail systems, hospitals, laboratories, residential communities, utilities and environmental restoration projects).

JUNIOR YEAR		
Fall Semester		
CVEN 3111	Analytical Mechanics II	
CVEN 4728	Geotechnical Engineering II	
CVEN 52311	Construction Materials and Methods	
MATH 3195	Linear Algebra/ Differential Equations	
Varies	Core Curriculum	
TOTAL CREDITS 16		

SENIOR YEAR		
Spring Semester		
CVEN 4067	Senior Design	
CVEN 4xxx	Design Elective (4 of 4)	
CVEN 4738	Intermediate Foundation Engineering	
CVEN 52321	Construction Planning and Controls	
Varies	Core Curriculum	
TOTAL CREDITS 15		

GRADUATE YEAR		
Fall Semester		
CVEN 5800 ²	Building Information Modeling	
CVEN 5236 ²	Project Management Systems	
ARCH 5xxx ³	General Elective (Architecture)	
MGMT 5xxx ³	General Elective (Business)	
	Research Seminar	
TOTAL CREDITS 12		

GRADUATE YEAR Spring Semester	
CVEN 5233	Construction Cost Estimating
CVEN 5800 ²	Construction Safety
ENGR 5xxx ³	Graduate Elective (Engineering)
CVEN 5960	Master's Report
TOTAL CREDITS 12	

Ready to apply? Visit http://engineering.ucdenver.edu/civil/admission-MEng.

- 1. Courses count toward bachelor's and master's degrees.
- 2. See program curriculum for all CEM electives.
- 3. See program curriculum for general elective requirements.

303.556.2871 ucdenver.edu/civ

civilengineering@ucdenver.edu



