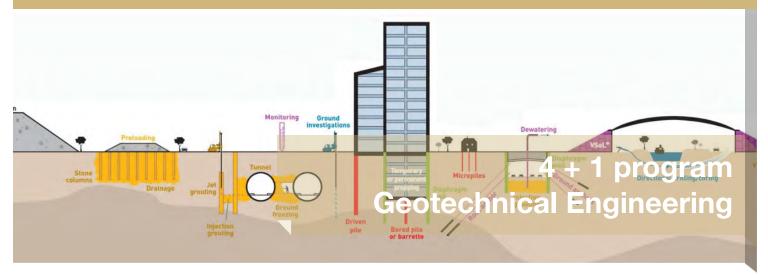
COLLEGE OF ENGINEERING AND APPLIED SCIENCE | CIVIL ENGINEERING



Want to earn your Master of Science 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 Science program in **geotechnical engineering** offers opportunities for study and research in design and construction of structures built on, in or of natural/improved soils or rocks. As desirable construction sites in urban settings are fast becoming fewer, innovations in geotechnical engineering is arguably some of the most intriguing and interesting. Geotechnical engineering covers diverse areas such as earth retaining structures, reinforced soil structures, dams, tunneling, bridge abutments, landslide stabilization, environmental geotechnics, in-situ testing, new soil composites, soil-structure interaction, earthquake engineering, subsurface characterization, ground improvement, computational geomechanics, and geosynthetics. This specialty area allows professionals to have close association with field work and is excellent for students who love to work in and with the nature.

JUNIOR YEAR		SENIOR YEAR		GRADUATE YEAR		GRADUATE YEAR		
Fall Semester		Spring Se	Spring Semester		Fall Semester		Spring Semester	
CVEN 3111	Analytical Mechanics II	CVEN 4067	Senior Design	CVEN 5718	Engineering Properties	CVEN 5709	Settlement Analysis	
CVEN 4728	Geotechnical Engineering II	CVEN 4xxx	Design Elective (4 of 4)	CVEN 5768 CVEN 5719	of Soils Introduction to Rock Engineering Design & Construction of GRS Structures	CVEN 5798	B Dynamics of Soils and Foundations	
		CVEN 4738	Intermediate Foundation Engineering					
CVEN 57801	Engineering Geology					CVEN 5xxx	Graduate Elective	
MATH 3195	Linear Algebra/ Differential Equations	CVEN 57081	Advanced Soils Engineering			CVEN 5950 ²	Master's Thesis (2 of 2)	
						TOTAL CREDITS 12		
Varies	Core Curriculum	Varies	Core Curriculum	CVEN 5950 ²	Master's Thesis (1 of 2)	TOTAL ONLY	110 12	
TOTAL CREDITS 16		TOTAL CREE	TOTAL CREDITS 15		TOTAL CREDITS 12			

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

1. Courses count toward bachelor's and master's degrees.

2. CVEN-5960 Master Report and a second Graduate Elective may substitute for 2×(CVEN-5950).

