

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 transportation places an emphasis for courses and research on transportation engineering, planning, operations and management. Our studies address local, state, national and international issues with funding from federal, state, local and private sources. We develop and investigate new methods and technologies to analyze the performance and safety of alternative transportation operations and designs. See below for an outline of the curriculum.



| SENIOR YEAR | | SENIOR Y | SENIOR YEAR | | GRADUATE YEAR | | GRADUATE YEAR | |
|------------------|-------------------------------------|------------|----------------------------|------------|-------------------------------|------------|--|--|
| Fall Semester | | Spring Se | Spring Semester | | Fall Semester | | Spring Semester | |
| CVEN 4000 | Senior Seminar | CVEN 4067 | Senior Design | CVEN 5662 | Transportation | CVEN 5611 | Traffic and Safety Data | |
| CVEN 4230 | Construction Engineering Systems | CVEN 4xxx | Design Elective (3 of 3) | | Systems Safety | | Analysis | |
| | | CVEN 4xxx | Techincal Elective | CVEN 5xxx | Graduate Elective (1 of 2) | CVEN 5612 | Traffic Impact Assessment | |
| CVEN 4xxx | Design Elective (1 of 3) | CVEN 56021 | Advanced Highway Design | | , | | | |
| CVEN 4xxx | Design Elective (2 of 3) | 0.11.0001 | | CVEN 5xxx | Graduate Elective (2 of 2) | CVEN 5633 | Case Studies in Sustainable Transport | |
| CVEN 56211 | Highway Capacity Analysis | Varies | Core Curriculum | CVEN 59503 | Master's Thesis (1 of 2) | CVEN 59503 | Master's Thesis (2 of 2) | |
| | | TOTAL CRED | TOTAL CREDITS 15 | | | | | |
| TOTAL CREDITS 12 | | | | | TOTAL CREDITS 12 | | 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 third Graduate Elective may substitute for 2×(CVEN-5950).

303.556.2871



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