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 on courses and research in 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

#### Fall Semester

- CVEN 4000: Senior Seminar
- CVEN 4230: Construction Engineering Systems
- CVEN 4xxx: Design Elective (1 of 3)
- CVEN 4xxx: Design Elective (2 of 3)
- CVEN 5621*: Highway Capacity Analysis

**TOTAL CREDITS** 12

#### Spring Semester

- CVEN 4067: Senior Design
- CVEN 4xxx: Design Elective (3 of 3)
- CVEN 4xxx: Technical Elective
- CVEN 5602*: Advanced Highway Design
- Varies: Core Curriculum

**TOTAL CREDITS** 15

### GRADUATE YEAR

#### Fall Semester

- CVEN 5662: Transportation Systems Safety
- CVEN 5xxx: Graduate Elective (1 of 2)
- CVEN 5xxx: Graduate Elective (2 of 2)
- CVEN 5950*: Master’s Thesis (1 of 2)

**TOTAL CREDITS** 12

#### Spring Semester

- CVEN 5611: Traffic and Safety Data Analysis
- CVEN 5612: Traffic Impact Assessment
- CVEN 5633: Case Studies in Sustainable Transport
- CVEN 5950*: Master’s Thesis (2 of 2)

**TOTAL CREDITS** 12

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