



# Transportation Engineering

## Master of Science in Civil and Environmental Engineering

Develop efficient and reliable transit systems and be part of the emerging world of autonomous transportation with the Transportation Engineering master's program from the University of Wisconsin-Madison.

### IS THIS PROGRAM RIGHT FOR YOU?

Due to energy constraints, population growth, capacity constraints, and environmental awareness, there is an industry need for engineers who understand traditional engineering principles and can also adapt and embrace innovative opportunities in the field.

The Civil and Environmental Engineering: Transportation Engineering master's degree focuses on technology-based learning and utilizes UW-Madison's prominence in cutting-edge scholarly research. Learn how to drive the discovery, planning, design, development, operation, maintenance, and safety of intelligent transportation systems and play an important role in connected and autonomous transportation. You will also gain the tools to develop efficient and reliable multi-modal freight systems that support economic growth and success in many industries.

Rapid growth in digital communication and automotive design requires new thinking. Our program takes advantage of emerging opportunities in remote controls and the use of interactive signals in vehicles, satellites, mobile phones, and stationary traffic operations devices. Plus, you learn within UW-Madison's full-scale driving simulator and our national CV/AV proving grounds.

The Transportation Engineering master's program at the UW-Madison teaches you to conduct research and disseminate knowledge for the safe and efficient movement of people and goods. A unique combination of classroom study and real-world application allows you to fully master developments in the transportation industry and gain the practical knowledge needed to excel in your career.

### WHAT YOU LEARN

- How to apply state-of-the-art technologies, evaluate options, and recommend solutions to transportation engineering challenges
- Creative, independent problem-solving and decision-making skills
- Best practices of safety, sustainability, environmental protection, ethical, and professional conduct

### TIME FRAME

1 year

### MODE OF INSTRUCTION

Face-to-face on campus

### REQUIREMENTS

Coursework only, no thesis. At least 30 credits required for Master of Science degree.

### TUITION

Resident: \$6,090/semester  
+ \$3,002 for 6 summer credits  
Non-Resident: \$12,753/semester  
+ \$6,334 for 6 summer credits

*Tuition rates as of fall 2019. Additional fees may apply.*

### APPLICATION DEADLINE

December 15 for fall 2020 program

### TYPICAL CURRICULUM

- Transportation Engineering
- Urban Transportation Planning
- Transportation Operations
- Geometric Design of Transport Facilities
- Traffic Control
- Traffic Flow Theory
- Management of Civil Infrastructure Systems

### LEARN MORE

[go.wisc.edu/transportation-engineering](http://go.wisc.edu/transportation-engineering)

### QUESTIONS?

Contact [cee.gradadmissions@engr.wisc.edu](mailto:cee.gradadmissions@engr.wisc.edu).