MS Civil Engineering – Transportation Engineering

This course plan serves as an example of the program. Program requirements and course offerings are subject to change.

Semester 1	Semester 2
● Core Course (4 units) ● Core Course (4 units)	● Core Course (4 units) ● Approved Elective (4 units)
Semester 3	Semester 4
● Approved Elective (4 units) ● Approved Elective (4 units)	● Approved Elective (4 units)

Core Courses (12 units)

- CE 521: Transportation Systems Analysis (4 units)
- CE 583: Design of Transportation Facilities (4 units)
- CE 584: Intelligent Transportation Systems (4 units)

Approved Electives (16 units)

- CE 430: Sustainable Transportation (2 units)
- CE 577: Data Analytics for Surface Transportation (4 units)
- CE 579: Introduction to Transportation Law (2 units)
- CE 582: Transportation System Security and Emergency Management (4 units)
- CE 588: Railroad Engineering (3 units)
- CE 589: Port Engineering: Planning and Operational Analysis (4 Units)
- CE 599: Digital Solutions for Transportation (4 units)
- CE 599: Future of Mobility (4 units)
- PPD 631: Geographic Information Systems for Policy, Planning, & Development (2 units)
- DSCI 510: Principles of Programming for Data Science (4 units)
- DSCI 552: Machine Learning for Data Science (4 units)

Additional electives may be approved by the program advisor.