MS Civil Engineering - Transportation Engineering Sample Course Plan

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

Fall 2024	Spring 2024
● Required Course (4 units) ● Required Course (4 units)	● Required Course (4 units) ● Electives (4 units)
Fall 2025	Spring 2025
● Elective (4 units) ● Elective (4 units)	● Elective (4 units)

Required 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)

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)