MS Civil Engineering – Transportation Engineering

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

<table>
<thead>
<tr>
<th>Fall 2024</th>
<th>Spring 2025</th>
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<tbody>
<tr>
<td>Core Course (4 units)</td>
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<td>Core Course (4 units)</td>
<td>Approved Elective (4 units)</td>
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<tr>
<th>Fall 2025</th>
<th>Spring 2026</th>
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<td>Approved Elective (4 units)</td>
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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.