The following Civil Engineering (CVEN) courses are available for Ph.D. students in Transportation Engineering. Coursework included in the Degree Plan must be approved by the degree candidate’s advisory committee.

### CVEN Courses in Transportation Engineering

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Frequency Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEN 617</td>
<td>Traffic Engineering: Characteristics</td>
<td>Annually</td>
</tr>
<tr>
<td>CVEN 618</td>
<td>Traffic Engineering: Operations</td>
<td>Annually</td>
</tr>
<tr>
<td>CVEN 625</td>
<td>Traffic Engineering: Design</td>
<td>Annually</td>
</tr>
<tr>
<td>CVEN 626</td>
<td>Roadside Safety Design</td>
<td>Annually</td>
</tr>
<tr>
<td>CVEN 632</td>
<td>Transportation System Engineering Management</td>
<td>Annually</td>
</tr>
<tr>
<td>CVEN 635</td>
<td>Street and Highway Design</td>
<td>Alternate Years</td>
</tr>
<tr>
<td>CVEN 672</td>
<td>Engineering and Urban Transportation Systems</td>
<td>Annually</td>
</tr>
<tr>
<td>CVEN 677</td>
<td>Advanced Surface Transportation Systems</td>
<td>Annually</td>
</tr>
</tbody>
</table>

### Other CVEN Courses

**General**
- CVEN 615 – Structural Design of Pavements
- CVEN 616 – System Design of Pavements
- CVEN 624 – Infrastructure Engineering and Management
- CVEN 637 – Rigid Pavement Analysis and Design
- CVEN 658 – Civil Engineering Applications of GIS

**Other**
- Other relevant CVEN courses as recommended by the advisory committee and departmental requirements.

### Courses Outside CVEN

**Urban Planning**
- PLAN 612 – Transportation in City Planning
- PLAN 616 – Analyzing Risk/Hazard and Public Policy
- PLAN 625 – Geographical Information Systems in Landscape and Urban Planning
- PLAN 650 – Disaster Response Planning
- PLAN 654 – Planning Administration and Management
- PLAN 661 – Information and Communication in Planning
- PLAN 669 – Urban Infrastructure Planning
- PLAN 670 – Urban Public Transportation Planning
- PLAN 674 – Transportation System Analysis

**Land Development**
- LDEV 668 – Land Development Practice

**Industrial Engineering**
- INEN 622 – Linear Programming
- INEN 623 – Nonlinear Programming
- INEN 625 – Simulation Methods and Applications
- INEN 629 – Engineering Optimization
- INEN 630 – Human Operator in Complex Systems
- INEN 635 – Human Information Processing
- INEN 667 – Engineering Economy

**Statistics**
- STAT 601 – Statistical Analysis
- STAT 602 – Statistical Methods of Regression Analysis
- STAT 611 – Theory of Statistics II
- STAT 612 – Theory of Linear Models
- STAT 619 – Design and Analysis of Experiments
- STAT 632 – Statistical Decision Theory
- STAT 643 – Biostatistics I
- STAT 644 – Biostatistics II
- STAT 647 – Spatial Statistics
- STAT 658 – Transportation Statistics

**Mathematics**
- MATH 601 – Methods of Applied Mathematics I
- MATH 604 – Mathematical Foundations of Continuum Mechanics
- MATH 609 – Numerical Analysis

**Accounting**
- ACCT 640 – Accounting Concepts and Procedures I

**Management**
- MGMT 655 – Survey of Management

**Finance**
- FINC 635 – Financial Management for Non-Business

**Economics**
- ECON 629 – Microeconomic Theory I
- ECON 655 – Experimental Economics
- ECON 675 – Econometrics I
- ECON 676 – Econometrics II

**Other**
- Other relevant graduate courses as recommended by the advisory committee and departmental requirements

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