<table>
<thead>
<tr>
<th>Tentative Course Offerings 2004-2006</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall 2004</strong></td>
</tr>
<tr>
<td>CEMM 501 (Introduction to Urban Transportation)</td>
</tr>
<tr>
<td>CEMM 508 (Urban Travel Forecasting)</td>
</tr>
<tr>
<td>CEMM 580 (Infrastructure Management)</td>
</tr>
<tr>
<td>CEMM 596 (Transportation Survey Methods)</td>
</tr>
<tr>
<td>UPP 503 (Data Analysis for Planning and Management I)</td>
</tr>
<tr>
<td>UPP 565 (Urban Transportation Policy Analysis)</td>
</tr>
<tr>
<td><strong>Fall 2005</strong></td>
</tr>
<tr>
<td>CEMM 501 (Introduction to Urban Transportation)</td>
</tr>
<tr>
<td>CEMM 502/CEMM 408 (Traffic Engineering and Design)</td>
</tr>
<tr>
<td>CEMM 508 (Urban Travel Forecasting)</td>
</tr>
<tr>
<td>CEMM 509 (Transportation Network Analysis)</td>
</tr>
<tr>
<td>CEMM 580 (Infrastructure Management)</td>
</tr>
</tbody>
</table>

**FACULTY**

**David Boyce, Ph.D.** Professor Emeritus: Metropolitan transportation and land use planning, travel forecasting models, and network analysis and modeling.

[www.uic.edu/depts/cme/people/faculty/dboyce](http://www.uic.edu/depts/cme/people/faculty/dboyce)

**Jane Lin, Ph.D.** Assistant Professor: Mobile emissions estimations, air quality, energy use, traffic characteristics in the network, and vehicle behavior modeling.

[www.uic.edu/depts/cme/people/faculty/janelin](http://www.uic.edu/depts/cme/people/faculty/janelin)

**Sue McNeil, Ph.D., P.E.** Professor and Director, Urban Transportation Center: Infrastructure condition assessment and modeling, automatic highway systems, and traffic engineering.

[www.uic.edu/depts/cme/people/faculty/mcneil](http://www.uic.edu/depts/cme/people/faculty/mcneil)

**Kouros Mohammadian, Ph.D.** Assistant Professor: Transportation planning, travel demand modeling, microsimulation of urban activities, ITS, and applied econometrics.

[www.uic.edu/depts/cme/people/faculty/kouros](http://www.uic.edu/depts/cme/people/faculty/kouros)

---

For further information, please see:

[www.uic.edu/depts/cme/](http://www.uic.edu/depts/cme/)

Or call (312) 996-3411
DEGREE PROGRAMS
The Department of Civil and Materials Engineering offers Master of Science (MS) and Doctor of Philosophy (PhD) degrees in civil engineering with a specialization in transportation engineering and planning. The course of study leading to both degrees is highly interdisciplinary. In addition to courses in transportation and traffic engineering, students take courses in mathematics and statistics, optimization, air quality, computer science and economics. The curriculum includes a variety of fundamental and applied courses in the fields of urban transportation planning, traffic control systems, intelligent transportation systems, air quality, transportation facility design, and transportation system and infrastructure management.

Masters degrees require 36 credit hours. For thesis option, this typically comprises 6 courses (three at 500-level) plus 12 thesis credits. Ph.D. students are required to take 108 credit hours after a BS or 76 credit hours after a MS degree. This includes at least 6 courses (24 credit hours) and at least 52 Ph.D. thesis credits. Many courses are offered in the late afternoon/evening to accommodate working professionals in the Chicago area.

RESEARCH
The University of Illinois-Chicago is a Research I University with over $230 million in annual research expenditures. The research facilities in Transportation Engineering at UIC are state of the art. All students doing a thesis option are required to perform research in their chosen areas under the supervision of their faculty advisor. Research programs of the faculty are outlined on their respective webpages.

FINANCIAL ASSISTANCE
Teaching and research assistantships are available. Full time graduate students are typically supported by external grants from transportation engineering faculty.

CURRICULUM
Transportation courses offered in the department of Civil and Materials Engineering:
1. CEMM 402 (Highway Geometric Design)
2. CEMM 501 (Introduction to Urban Transportation)
3. CEMM 502/CEMM 408 (Traffic Engineering and Design)
4. CEMM 503 (Advanced Transportation Demand Analysis)
5. CEMM 507 (Transportation Energy and Air Quality)
6. CEMM 508 (Urban Travel Forecasting)
7. CEMM 509 (Transportation Network Analysis)
8. CEMM 580 (Infrastructure Management)
9. CEMM 594/CEMM 596 (Advanced Special Topics or Independent Study in Transportation Engineering)

The following courses are offered in different fields of transportation:

TRAFFIC ENGINEERING AND NETWORK ANALYSIS
CEMM 502/CEMM 408 (Traffic Engineering and Design)
CEMM 509 (Transportation Network Analysis)
IE 472 (Operations Research)

ENVIRONMENTAL IMPACTS OF TRANSPORTATION
CEMM 419 (Air Quality Management I)
CEMM 507 (Transportation Energy and Air Quality)
CEMM 526 (Air Quality Management II)

TRANSPORTATION DESIGN
CEMM 402 (Highway Geometric Design)

TRANSPORTATION MANAGEMENT AND SYSTEM ANALYSIS
CEMM 580 (Infrastructure Management)
UPP 503 (Data Analysis for Planning and Management I)
UPP 513 (Data Analysis for Planning and Management II)
UPP 561 (Urban Transportation Policy and Methods)
UPP 562 (Urban Transportation Laboratory)
UPP 563 (Public Transportation Management)

TRANSPORTATION PLANNING
CEMM 501 (Introduction to Urban Transportation)
CEMM 503 (Advanced Transportation Demand Analysis)
CEMM 508 (Urban Travel Forecasting)
UPP 503 (Data Analysis for Planning and Management I)
UPP 508 (Geographic Information Systems for Planning)