Civil & Environmental Engineering Graduate Programs

Did you know?

- You can do a Master of Science in Civil & Environmental Engineering full-time or part-time, with a thesis, project or coursework-only!
- A Masters degree program consists of 30 credits.
- Did you graduate from UML engineering with a GPA over 3.0 within the past five years? We'll waive the application fee and the GRE requirement!
- You can start by taking courses as a non-matriculated student and then transfer up to 12 credits in towards your full or part-time graduate degree.
- Doctoral programs - both PhD and D.Eng - are available in Civil & Environmental Engineering.
- Teaching and/or Research Assistantships available for full-time grad students!
- We have externally funded research - over $8 million in research expenditures annually within the college!
- Other Graduate options include the Masters in Education, MBA and new Masters in Innovation and Technological Entrepreneurship.

Start Building Your Future Career

GRADUATE Registration & Open House

August 18, 2010
3:30pm-7:00pm

Attend Open House to obtain: answers to Questions; Advising; Parking Stickers; Refreshments

Quality! - Courses are taught by well qualified full-time faculty or adjunct faculty from industry
Value! - $1678 tuition + fees per 3 credit on-campus course for Massachusetts residents
Graduate Courses offered through Continuing Ed—$1560 tuition & fees per 3 credit course.
Convenience! - We’re close to Boston

Sign up for a course for the fall as a non-matriculated student, or apply for the degree program

Information on CEE Offerings:
Web: civil.uml.edu
Dept. Office: 978-934-2280
Graduate School Info:
www.uml.edu/grad
978-934-2390
Continuing Education Info:
continuinged.uml.edu

Prof. Clifford Bruell
Department Chair
Clifford_Bruell@uml.edu

Prof. Chronis Stamatiadis
Graduate Coordinator
Chronis_Stamatiadis@uml.edu

Prof. Kenneth Lee
Env. Studies Coordinator
Civil & Environmental Engineering

Courses are scheduled in the late afternoon and evening to provide study opportunities for students with full-time employment.

Fall 2010 Graduate Classes

All courses 6pm - 9pm unless noted

<table>
<thead>
<tr>
<th>Day</th>
<th>Course Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>14.475.201 Construction Management</td>
<td>Mojahed</td>
</tr>
<tr>
<td></td>
<td>14.531.201 Advanced Soil Mechanics</td>
<td>Kurup</td>
</tr>
<tr>
<td></td>
<td>14.562.201 Physical and Chemical Hydrogeology</td>
<td>Bruell</td>
</tr>
<tr>
<td>Tuesday</td>
<td>14.548.201 Traffic Management and Control</td>
<td>Husseini</td>
</tr>
<tr>
<td></td>
<td>14.553.201 Wood Structures</td>
<td>Leitch</td>
</tr>
<tr>
<td></td>
<td>14.564.201 Hydraulics &amp; Hydrology</td>
<td>Lee</td>
</tr>
<tr>
<td></td>
<td>18.527.201 Environmental Law</td>
<td>Geiser</td>
</tr>
<tr>
<td>Wednesday</td>
<td>14.533.201 Advanced Foundation Engineering</td>
<td>Paikowsky</td>
</tr>
<tr>
<td></td>
<td>14.568.201 Environmental Fate &amp; Transport</td>
<td>Brueell</td>
</tr>
<tr>
<td></td>
<td>14.570.001 Wastewater Treatment &amp; Storm Water Management Systems*</td>
<td>Moeller</td>
</tr>
<tr>
<td>Thursday</td>
<td>14.512.201 Structural Stability</td>
<td>Yu</td>
</tr>
<tr>
<td></td>
<td>14.545.201 Public Transit Plan &amp; Design</td>
<td>Stamatiadis</td>
</tr>
<tr>
<td></td>
<td>14.578.201 Biological Wastewater Treatment</td>
<td>Zhang</td>
</tr>
<tr>
<td></td>
<td>85.572.201 Energy &amp; the Environment</td>
<td>Golomb</td>
</tr>
<tr>
<td></td>
<td>18.581.001 Understanding the MA Contingency Plan*</td>
<td>Fitzgerald</td>
</tr>
</tbody>
</table>

Spring 2011 Graduate Classes

<table>
<thead>
<tr>
<th>Monday</th>
<th>Course Title</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14.505.201 Concrete Materials</td>
<td>Yu</td>
</tr>
<tr>
<td></td>
<td>14.573.201 Solid Waste Engineering</td>
<td>Brueell</td>
</tr>
<tr>
<td>Tuesday</td>
<td>14.504.201 Advanced Strength of Materials</td>
<td>Leitch</td>
</tr>
<tr>
<td></td>
<td>18.531.001 Sustainable Water Infrastructure*</td>
<td>LeClair &amp; Hayek</td>
</tr>
<tr>
<td>Wednesday</td>
<td>14.508.201 Practice of Structural Engineering</td>
<td>Faraji</td>
</tr>
<tr>
<td></td>
<td>14.537.201 Experimental Soil Mechanics</td>
<td>Kurup</td>
</tr>
<tr>
<td></td>
<td>14.544.201 Transportation Economics &amp; Project Evaluation</td>
<td>TBA</td>
</tr>
<tr>
<td></td>
<td>14.579.201 Green &amp; Sustainable Civil Engineering</td>
<td>Lee</td>
</tr>
<tr>
<td>Thursday</td>
<td>14.530.201 Deep Foundations</td>
<td>Paikowsky</td>
</tr>
<tr>
<td></td>
<td>14.546.201 Pavement Design</td>
<td>Stamatiadis</td>
</tr>
<tr>
<td></td>
<td>14.567.201 Env. Aquatic Chemistry</td>
<td>Zhang</td>
</tr>
<tr>
<td></td>
<td>18.581.001 Understanding the MA Contingency Plan*</td>
<td>Fitzgerald</td>
</tr>
</tbody>
</table>

* offered through Continuing Education

Graduate Information

M.S. in Civil & Environmental Engineering

Requirements: 30 credit hours which can include a 6 credit thesis, 3 credit project or coursework only

Concentration Areas:
- Environmental Engineering
- Geoenvironmental Engineering
- Geotechnical Engineering
- Structural Engineering
- Transportation Engineering

M.S. in Environmental Studies

The M.S. in Environmental Studies is designed for students with non-engineering backgrounds.

Option Area:
- Environmental Engineering Sciences

Graduate Certificate Program:
- Sustainable Infrastructure for Developing Nations

D.Eng. and Ph.D. in Civil & Environmental Engineering

Requirements:
- 63 credit hours of graduate level courses total
- 42 credit hours of graduate course work
- 21 credit hours of doctoral dissertation
- For the DEng degree, 9 of the 42 coursework credits are Management courses

Department Faculty Members

Environmental

Clifford J. Bruell, Professor & Department Chair
B.S. Lowell Technological Institute, M.S. Univ. Lowell, Ph.D. Univ. of Connecticut

Kenneth Lee, Associate Professor & Environmental Studies Coordinator
B.S., M.S., Ph.D., University of California Irvine, P.E.

Xiaoqi (Jackie) Zhang, Professor
B.S. Tongji University, Shanghai, M.S. Tsinghua University, Beijing, Ph.D. Univ. of Cincinnati

Geotechnical

Pradeep Kurup, Professor
B.S. Kerala University, India, M.Tech. India Institute of Technology, Madras, Ph.D. Louisiana State Univ., P.E.

Samuel G. Paikowsky, Professor
B.S., M.S. Technion—Israel Institute of Technology, Sc.D. Massachusetts Institute of Technology

John M. Ting, Professor & Dean of Engineering

Structural

Susan Faraji, Professor
B.S. Arya-Mehr University of Technology, M.S. Northeastern Univ. Ph.D. University of Massachusetts Amherst

Donald G. Leitch, Professor, Undergrad Coordinator & Exec. Officer
B.S. Lehigh University, M.S. (University of Colorado), P.E.

Tzu-Yang Yu, Assistant Professor
B.S National Yunlin University of Science & Technology, M.S., Ph.D. Massachusetts Institute of Technology

Transportation

Nathan H. Gartner, Professor & Co-op Coordinator
B.S., M.S., Sc.D. Technion—Israel Institute of Technology

Chronis Stamatiadis, Associate Professor & Graduate Coordinator
B.S. Aristotlean University, Thessaloniki, M.S., Ph.D. Michigan State University