

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 course-work-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.



Civil & Environmental Engineering

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Graduate Programs

Start Building Your Future Career



- 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
*Courses offered through Continuing Ed—
\$1485 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

Prof. Clifford Bruell
Department Chair
Clifford_Bruell@uml.edu

Graduate School Info:
www.uml.edu/grad
978-934-2390

Prof. Chronis Stamatidis
Graduate Coordinator
Chronis_Stamatidis@uml.edu

Continuing Education Info:
continuinged.uml.edu
978-934-2474

Prof. Clifford Bruell
Env. Studies Coordinator
Clifford_Bruell@uml.edu

Civil & Environmental Engineering
University of Massachusetts Lowell
One University Avenue
Lowell, Massachusetts 01854
web: civil.uml.edu



Civil & Environmental Engineering

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

Fall 2009 Graduate Classes

All courses 6pm-8:50pm unless noted in [blue](#)

Day	Course Title	Instructor
Monday		
14.529.201	Engineering with Geosynthetics	Hourani
14.562.201	Physical and Chemical Hydrogeology	Bruell
14.475.201	Construction Management	Mojahed
22.513.201	Finite Element Analysis I 5:00-6:15 pm MW	Sherwood
87.504.201	Geographic Information Systems	Brown
Tuesday		
14.537.201	Experimental Soil Mechanics	Kurup
14.541.201	Traffic Engineering	Husseini
14.543.201	Traffic Principles for Intelligent Transport Systems 2:30-3:45pm TTh	Gartner
*18.535.041	Global Environmental Science	Miller
Wednesday		
14.536.201	Soil Engineering	Paikowsky
14.550.201	Behavior of Structures	Faraji
*14.570.001	Wastewater Trtmt & Storm Water Mgmt	Moeller
14.573.201	Solid Waste Engineering	Bruell
18.527.201	Environmental Law	Geiser
Thursday		
14.511.201	Inspection & Monitoring of Civil Infrastructure	<i>new!</i> Yu
14.567.201	Environmental Aquatic Chemistry	Zhang
14.583.201	Stochastic Concepts	Stamatiadis
18.572.201	Energy & Environment	Golomb
*18.581.041	Understanding the MA Contingency Plan	Fitzgerald

Spring 2010 Graduate Classes

Monday		
14.595.201	Hazardous Waste Site Remediation	Bruell
14.558.201	Bridge Design	Huckabee
Tuesday		
14.540.201	Urban Transportation Planning	Husseini
*14.572.041	Marine and Coastal Processes	Fiorillo
14.5xx.201	Structural Stability	Yu <i>new!</i>
Wednesday		
14.5xx.201	Green & Sustainable Civil Engineering	Lee <i>new!</i>
14.527.201	Geotech. & Env. Site Characterization	Kurup
Thursday		
14.533.201	Advanced Foundation Engineering	Paikowsky
14.5xx.201	Transp. Economics & Project Evaluation	TBA <i>new!</i>
14.561.201	Physical Chemical Treatment Processes	Zhang
*18.581.041	Understanding the MA Contingency Plan	Fitzgerald
18.571.201	Air Pollution Phenomenology	Golomb

* 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.

Concentration Areas:

- Environmental Engineering Sciences
- Atmospheric Sciences (Thesis Required)

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

Teaching & Research Assistantship Stipend/Waiver Information: (for full year, double the amounts shown)

Item	half-time	TA/RA per semester	full-time	TA/RA per semester
	in-state	out-of-state & foreign	in-state	out-of-state & foreign
stipend	\$3252	\$3252	\$6,504	\$6,504
tuition & fees waiver	\$3261	\$5228	\$5761	\$9695
total TA/RA value per semester	\$6513	\$8480	\$12,265	\$16,199

Education Costs - Full time (9 credits) per semester:

In-state: \$5034, Out of state: \$9365

New England Regional & New England Proximity: \$7380

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
B.S., M.S., Ph.D., University of California Irvine, P.E.

Xiaoqi (Jackie) Zhang, Associate 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
B.Eng. McGill University., M.S. California Institute of Technology,
Sc.D. Massachusetts Institute of Technology, P.E.

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
B.S., M.S., Sc.D. Technion—Israel Institute of Technology

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