Did you know?

- 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!
- A Master of Science in Electrical Engineering or Computer Engineering consists of 30 credits for a thesis based degree or 33 credits for the coursework only or project-based option.
- 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 both Electrical & Computer Engineering.
- Teaching and Research Assistantships may be available for full-time grad students!
- We have externally funded research! Research projects exist in every area of specialization, including optoelectronics, biophotonics, electromagnetics, renewable energy, VHDL & VLSI Design, wireless.
- Other Graduate options include the Masters in Education, MBA and new Masters in Innovation and Technological Entrepreneurship.

Graduate Programs

Start Building Your Future Career

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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 & many companies in the Rte. 128 & I-495 corridor.

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

Electrical & Computer Eng. Info:
Web: www.uml.edu/ece
Dept. Office: 978-934-3300

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

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

Prof. Craig Armiento
Department Chair
Craig_Armiento@uml.edu

Prof. Anh Tran
ECE Graduate Coordinator
Anh_Tran@uml.edu

Prof. Dik Kalluri
ECE Doctoral Coordinator
Dikshitulu_kalluri@uml.edu
Electrical & Computer Engineering

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

Fall 2009 Graduate Classes

Graduate Programs

**M.S. in Electrical Engineering & in Computer Engineering**

**Requirements:** 30 credit hours for a 6 credit thesis-based degree OR 33 credits for the coursework only or project option

**Concentration Areas (C=Computer; E=Electrical)**

- Information Systems - Telecommunications **E**
- Information Systems - Communications Engineering **E**
- Power & Energy Engineering **E**
- Opto-Electronics **E**
- Computer Networking & Distributed Systems **C**
- Computing & Embedded Systems Hardware & Architecture **C**
- Artificial & Machine Intelligence **C**
- Multimodal Digital Signal and Image Processing & Applications **C**

**Graduate Certificate Programs: (E=ECE; I=interdisciplinary)**

- Biomedical Engineering **I**
- Communications Engineering **E**
- Energy Conversion **I**
- Integrated Engineering Systems **I**
- Microwave & Wireless Engineering **E**
- Nanotechnology **I**
- Photonics & Optoelectronics **I**
- Stochastic Systems **E**
- Telecommunications **I**
- VLSI & Microelectronics **E**

**Ph.D. & D.Eng. in Electrical 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 D.Eng degree, 9 of the 42 coursework credits are Management courses.

**Teaching & Research Assistantship Stipend/Waiver Information:**

<table>
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<th>Item</th>
<th>half-time</th>
<th>TA/RA per semester</th>
<th>full-time</th>
<th>TA/RA per semester</th>
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<tr>
<td>stipend</td>
<td>$3252</td>
<td>$3252</td>
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<td>tuition &amp; fees waiver</td>
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<td>$6513</td>
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</tbody>
</table>

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

In-state: $934, Out of state: $9365

New England Regional & New England Proximity: $7380

**Department Faculty Members**

- **Alkim Akyurtlu**, Associate Professor
  - B.S. Virginia Polytechnic Institute, M.S. Ph.D. Pennsylvania State University
- **Craig Armiento**, Professor & Department Chair
  - B.S. Manhattan College, S.M., E.E., Ph.D. Massachusetts Institute of Technology
- **Kavitha Chandra**, Professor
  - B.E. Bangalore University, M.S., D.Eng. U. Mass. Lowell
- **George P. Cheney**, Professor, Undergrad Coordinator & Exec. Officer
  - B.S. MS. Lowell Technological Institute
- **Tingshu Hu**, Associate Professor
  - B.S., M.S. Shanghai Jiao Tong University, China, Ph.D. University of Virginia
- **Oliver Ibe**, Associate Professor
  - B.Sc. University of Nigeria, M.B.A. Northeastern University, S.M., Sc. D. Massachusetts Institute of Technology
- **Dikshitulu Kalluri**, Professor & Doctoral Coordinator
  - B. E. Andhra University, M.S. University of Wisconsin, D.I.I.Sc., Indian Institute of Science, Ph.D. University of Kansas
- **Xuejun Lu**, Associate Professor
  - M.S., Ph.D. University of Texas Austin
- **Yan Luo**, Assistant Professor
  - B.E., M.E., Huazhong University of Science & Technology, China, Ph.D. University of California Riverside
- **Mufeed Mahdi**, Associate Professor
  - B. S. Kuwait University, M.S. University of Jordan, Ph.D. University of Western Ontario, Canada
- **Martin Margala**, Associate Professor
  - Dipl. Ing. Slovak Technical University, Slovakia, Ph.D. University of Alberta, Canada
- **Dalila B. Mehergee**, Associate Professor
  - Dipl. Ecole Nationale Polytechnique, M.S.(2), Ph.D. Brown Univ.
- **Samson Mlachtan**, Professor
  - B. S., M.S. State University of Odesa, Ph.D., University of Jerusalem, Israel
- **Kanti Prasad**, Professor
  - B. Sc. Agra University, B.E. University of Roorkee, India, Ph.D. University of South Carolina, PE
- **Tenneti C. Rao**, Professor
  - B. Sc. Andhra University, B.E., M.E., Ph.D. Indian Institute of Science, Bangalore
- **Ziyad M. Salameh**, Professor
  - Dipl. EE, Moscow Power Engineering Institute, M.S., Ph.D. University of Michigan
- **Joel Therrien**, Assistant Professor
  - B.S., M.S. U. Mass-Lowell, Ph.D. U. Illinois Urbana-Champaign
- **Charles Thompson**, Professor
  - B. S. New York University, M.S. Polytechnic Inst. of New York, Ph. D. Massachusetts Institute of Technology
- **Anh Tran**, Professor & Graduate Coordinator
  - B. Sc. National Taiwan University, M.S., Ph.D. Univ. Rhode Island
- **Fahd G. Wakim**, Associate Professor
  - B.S. American University of Beirut, M.A., Ph.D. Univ. of Texas
- **Xingwei Wang**, Assistant Professor
  - B.S. Zhongshan (Sun Yat-sen) University, China, M.S., Ph.D. Virginia Polytechnic Institute
- **Jay A. Weitzen**, Professor
  - B.S., M.S., Ph. D. University of Wisconsin