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 Masters of Science in Plastics Engineering consists of 30 credits for a thesis or project-based degree (33 credits for the coursework-only option).
- You can do your degree full-time or part-time and several graduate courses are online!
- Doctoral programs - both PhD and D.Eng - are available.
- Teaching and/or Research Assistantships are available for full-time grad students! We typically support about 15 full-time grad students in Plastics Engineering each year.
- We have externally funded research! With over departmental research expenditures over $800K/year in each of the past 7 years, research projects exist in every area of specialization, including medical devices, medical plastics, green plastics production, flexible photovoltaics, biosensors, etc.
- Plastics Engineering Fundamentals Certificate available online to help students with non-Plastics Engineering undergrad degrees prepare for their graduate degree program in Plastics.
- Other Graduate options include the Masters in Education, MBA and new Masters in Innovation and Technological Entrepreneurship.

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 as a non-matriculated student, or apply for the degree program

Plastics Engineering Info:
Web: plastics.uml.edu
Dept. Office: 978-934-3420

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

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

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Department Chair
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Prof Steve McCarthy
Graduate Coordinator
Stephen_McCarthy@uml.edu

Prof. J an Huang
Graduate Coordinator
J an_Huang@uml.edu
Plastics Engineering

Graduate Programs

M.S. in Plastics Engineering

Requirements: 30 credits including a 6 credit thesis; 33 credits required for a coursework-only program.

Concentration Areas:
- Plastics Design
- Plastics Materials
- Plastics Processing
- Medical Plastics Design and Manufacturing
- Elastomeric Materials

Graduate Certificate Programs (I=Interdisciplinary):
- Plastics Engineering Fundamentals
- Plastics Design
- Plastics Materials
- Plastics Processing
- Medical Plastics Design and Manufacturing
- Elastomeric Materials
- Commercial Development for Plastics Engineers
- Sustainable Polymeric Materials & Additives
- Biomedical Engineering
- Nanotechnology

D.Eng. and Ph.D. in Plastics 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)

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<th>Item</th>
<th>half-time TA/RA per semester</th>
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Education Costs - Full time (9 credits) per semester:
In-state: $5034, Out of state: $9365
New England Regional & New England Proximity: $7380

Fall 2009 Late Day and Evening Graduate Classes

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

Time (6pm-9pm unless noted in blue)
All courses are 3 credits unless indicated in ()

Day       Course Title                                                                 Instructor
Monday
26.509.201 Plastics Processing Theory                                               Lai
26.565.201 Engineering Thermosetting Resins                                         Driscoll
26.578.201 Advanced Plastics Processing                                             Barry
22.576.201 Engineering Project Management                                           Shina
Tuesday
26.514.201 Statistics for Six Sigma                                                 Stacer
26.518.201 Plastics Product Design                                                  Schott
26.548.201 Numerical and Analytical Methods                                         Huang
26.574.201 Advanced Physical Properties Lab (1)                                     Orroth
26.553.201 Polymers in Medicine 2:30-5:20pm                                         McCarthy
Wednesday
26.506.201 Polymer Structure, Props & Applications                                 Nagarajan
26.544.201 Advanced Plastics Materials I                                             Driscoll
26.585.201 Computer Aided Engineering I                                             Lai
26.551.201 Extrusion Die Design 3:30pm-5:30pm                                       Orroth
26.551.801 Extrusion Die Design Lab (0) TBA                                         Orroth
Thursday
26.503.201 Mechanical Behavior of Polymers                                         Stacer
25.550.201 Intro to Nanotechnology                                                  Mead
26.575.201 Biomaterials I                                                          Egan
26.542.201 Colloidal Nanoscience & Nanoscale Eng. 2:30pm-5:20pm                   Budhlall
ONLINE
*26.506.031 Polymer Structure, Props & Applications                                Driscoll
*26.544.031 Advanced Plastics Processing                                            Driscoll
*26.578.031 Advanced Plastics Processing                                            Barry

* offered through Continuing Education

Department Faculty Members

Carol Barry, Professor
B.S. Boston College, D. Eng. University of Massachusetts Lowell

Bridgette M. Budhlall, Assistant Professor
B.Sc. University of West Indies, Ph.D. Lehigh University

Aldo M. Crugnola, Professor & Dean Emeritus
A. B. Boston University, M.S. Northeastern Univ., Sc.D. Massachusetts Institute of Technology, P.E.

Stephen Burke Driscoll, Professor
B.S., M.S. Lowell Technological Institute

Stephen G. Grossman, Professor
B.S. University of Connecticut, Ph.D. Univ. of Massachusetts, J.D. Franklin Pierce Law Center

Jian-Chan Huang, Professor & Graduate Coordinator
B.S. National Taiwan University, M.S. University of Notre Dame, Ph.D. Kansas State University

Robert Malloy, Professor & Department Chair
B.S., Ph.D. University of Lowell

Stephen P. McCarthy, Professor & Graduate Coordinator
B.S. Southeastern Massachusetts University, M.S.E. Princeton University, Ph.D. Case Western Reserve University

Joey L. Mead, Professor
B.S., S.M., Ph.D. Massachusetts Institute of Technology

Ramaswamy Nagarajan, Assistant Professor
B.T. Anna University, Madras, B.S. Loyola College, Madras, India, M.S., Ph.D. University of Massachusetts Lowell

Stephen Orroth, Professor & Undergrad Coordinator
B.S. M.S. Lowell Technological Institute

Stephen P. Petrie, Professor
B.S. M.S. Lowell Technological Institute, Ph.D. Univ. Connecticut

Daniel Schmidt, Assistant Professor
B.S. Carnegie Mellon University, M.S., Ph.D. Cornell University

Nick R. Schott, Professor
B.S. Univ. of California, Berkeley, M.S., Ph.D. Univ. of Arizona

Ross G. Stacer, Associate Professor
B.A. University of California Irvine, Ph.D. University of Akron

Adan Tayebi, Professor
B.S. Alexandria University, S.M., M.E., Sc.D. Massachusetts Institute of Technology

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New England Regional & New England Proximity: $7380