Currently, to achieve the M.S. in Polymer Engineering, a student must successfully complete:

- 30 credits in polymer engineering, including:
  - 12 credits of polymer engineering core courses
  - 12 credits of polymer engineering 600-level electives
  - 6 credits of technical electives
  - 6 or more credits of doctoral dissertation

Currently, to achieve the Ph.D. in Polymer Engineering, a student must complete:

- 96 credits in polymer engineering, including:
  - 60 credits of preliminary research and doctoral dissertation
  - 12 credits of polymer engineering 600-level electives
  - 6 credits of technical electives
  - 6 credits of research
  - 12 credits of polymer engineering core courses
  - 12 credits of polymer engineering 600-level electives

After Graduation

Polymer engineering students enjoy a high job placement rate after receiving their degree. Graduates go on to successful and lucrative careers in private industry, government and academia. Here is a sampling of the employers of UA polymer engineering alumni:

- 3M
- Abbott Laboratories
- Apple Inc.
- Avery Dennison
- B&G Foods
- Boeing
- Bridgestone Americas
- Celanese
- COOKIE HOME
- ConocoPhillips
- Dow Chemical
- DuPont
- Emerson Electric
- General Electric
- General Motors
- Georgia Tech
- Halliburton
- Honeywell
- Hyundai
- Intel
- Iowa State University
- John Deere
- Johnson & Johnson
- Kimberly Clark
- Land O’Lakes
- LG Chemical
- M.I.T.
- Merck
- Milton-Rod
- Motorola
- Nissan
- Northrop Grumman
- Novartis
- Omnicare
- PepsiCo
- PolyOne
- UPS
- Valspar
- Visteon
- Williams

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- Akron Art Museum
- Akron Civic Theatre
- Akron Symphony
- Blossom Music Center
- Canton-Cleveland Zoo
- Cuyahoga Valley National Park
- Exposition Park
- Federal Reserve Bank of Cleveland
- Great Lakes Science Center
- Hale Center for Performing Arts
- National Firefighters Hall of Fame
- National World War II Museum
- Packard Museum
- Pro Football Hall of Fame
- Rutherford B. Hayes Presidential Library
- Sauder Village
- Stan Hywet Hall & Gardens
- William McKinley Presidential Library & Museum

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The Department of Polymer Engineering at The University of Akron offers both master’s and doctorate degrees in polymer engineering and provides students with a high-quality educational experience in the engineering and science of polymers. Students are taught the skills of research by regular full-time professors in both classroom and laboratory environments. Students represent faculty and student offices; the Sidney L. Olson Research laboratory environments. Students are taught the skills of research by regular full-time professors in both classroom and laboratory environments.

To apply online at: student.ualr.edu. Please note that all application materials, forms, scores, letters of recommendation, and other supporting materials must be submitted by The University of Akron Graduate School.

FUNDING YOUR EDUCATION
The Department of Polymer Engineering supports the mission of the University of Akron Graduate School. Financial aid, tuition reduction, and other support are available from several principal sources including: the University of Akron Graduate School Fellowship and Assistantships, the Sidney L. Olson Research Laboratory, and the Polymer Engineering Graduate Fellowship.

Welcome to the Department of Polymer Engineering Faculty

Dr. Younjin Min – Assistant Professor
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Dr. Min is a Distinguished Professor and professor of mechanical engineering at the University of Akron. Her research focuses on polymer processing, specifically extrusion and injection molding, with applications in the areas of medical devices, personal care, and consumer goods. She is also active in developing educational programs in polymer processing and providing educational opportunities for students interested in polymer processing.

Dr. Erol Sancaktar – Assistant Professor
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Dr. Sancaktar is the Harold A. Morton Professor and Chair of the Department of Polymer Engineering. His research focuses on the development and application of polymer-based materials for medical devices, drug delivery systems, and other biomedical applications.

Dr. Thein Kyu – Distinguished Professor
Ph.D. in Chemical Engineering, UNIVERSITY OF AUCKLAND, 1994
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Dr. Kyu is the Henry DeLorme Professor of Chemical Engineering and serves as the Director of the Polymer Processing Laboratory. His research focuses on the development of novel processing technologies for polymer materials and their applications in a variety of industries.

Dr. Kevin Cousins – Associate Professor
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Dr. Cousins is the William C. Frey Professor of Polymer Engineering and serves as the Director of the Polymer Engineering Graduate Program. His research focuses on the development of new methods for the characterization and modification of polymer materials.

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Should you have any questions or need additional assistance, The University of Akron in the heart of the polymer industry. We invite you to consider the benefits of studying at academic needs in the future!

Located in Akron, Ohio — a world-renowned center for polymer science and technology — the University of Akron is a public research university known for its strong programs in science, engineering, and business. The university has a strong reputation for excellence in research and teaching, and its graduates are prepared for successful careers in a variety of fields. The university is committed to providing a high-quality education that prepares students for success in their chosen fields.

Welcome to the Department of Polymer Engineering

ADMISSIONS REQUIREMENTS

The Department of Polymer Engineering at The University of Akron is committed to admitting students who have the potential to succeed in our program. Therefore, we require that applicants meet the following admission requirements:

1. Fully completed Graduate Application
2. Applicable fees
3. A baccalaureate degree in engineering or a related field
4. At least a cumulative grade point average (GPA) of 3.0 on a 4.0 scale
5. Evidence of ability to conduct research (e.g., research experience, publications, presentations, etc.)
6.-lined list of professional recommendations
7. Statement of purpose (personal statement)
8. Submission of Graduate Record Examination (GRE) general test scores
9. All international students must submit official Test of English as a Foreign Language (TOEFL) scores (minimum 550 paper-based, 230 computer-based, or 80 internet-based)

Correlative Grade Point Average (CGPA) Requirement:

The average GPA for admitted students is 3.0 or higher on a 4.0 scale for work completed in the last two years.

APPLY ONLINE

Please apply online at uakron.edu/gradsch. Please note that applications, transcripts, reference letters, and other required materials must be submitted to The University of Akron Graduate School. Applications for admission to the Polymer Engineering program are processed throughout the year for fall semester admission; however, priority consideration is given to those students whose files are complete by May 15 each year.

FUNDING YOUR EDUCATION

The Department of Polymer Engineering supports a number of high-achievement students. Financial aid is available to eligible students who demonstrate financial need. Financial aid options include scholarships, grants, and loans.

Contact Us

Dr. Mukesh Chaturvedi, Assistant Professor
Phone: 330-972-8312 – mchaturvedi@uakron.edu
University of Akron, 1996
Ph.D. in Chemical Engineering, University of Delaware, 2000
Research interests include developing methods for prediction of polymer properties, characterization and simulation of complex structural mechanisms.

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ADMISSIONS REQUIREMENTS

Please note that applications for the Department of Polymer Engineering are reviewed individually. Applicants who can demonstrate the necessary qualifications for successful graduate study will be admitted. Admission requirements are as follows:

1. Fully Completed Graduate Application
2. Application Fee
3. All official undergraduate transcripts and, if applicable, graduate transcripts
4. Three (3) letters of professional recommendation
5. Statement of purpose (personal statement)
6. Submission of Graduate Record Examination (GRE) general test scores
7. All international students must submit official TOEFL test scores as a Foreign Language (TOEFL) scores (minimum 550 general test scores)
8. Graduation in the United States and numerous foreign laboratory environments. Students represent the United States and numerous foreign countries, and graduates of the department have gone on to successful careers in private industry, government and academia.

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Please apply online at uakron.edu/gradsch. Please apply online at: uakron.edu/gradsch. Please apply online at uakron.edu/gradsch.

APPENDIX

Details and other information are available at uakron.edu/gradsch. Please apply online at uakron.edu/gradsch. Please apply online at uakron.edu/gradsch. Please apply online at uakron.edu/gradsch.
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- Kimberly Clark
- Land
- PerkinElmer
- LG Chemical
- Orval
- Lubrizol
- Auna
- Pepco
- Shell
- PolyOne
- WP-Industries
- Honeywell
- Astar
- MeadWestvaco
- UACI Innovation Plastics
- Gent Bobal
- Germany
- Schlünder
- General Motors
- Graf & Graf (CO Company)
- J&L
- Teckton Aerospace
- U.S. Air Force Research Laboratory
- NASA Langley
- Administration

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- Apple Inc.  
- Avery Dennison  
- Bausch & Lomb  
- BMW  
- Bridgestone/Firestone  
- Celanese  
- Conference of Big Ten  
- ConocoPhillips  
- Corning  
- Dow Chemical  
- DuPont  
- Eastman Chemical  
- Exel Mobbil  
- General Electric  
- Georgia Tech & Rubber  
- Gillette  
- Honda  
- Honeywell  
- Hyundai  
- IBM  
- Iowa State University  
- John Deere  
- Joiners & Johnsons  
- Kimberly Clark  
- Land  
- Lear  
- LG Chemical  
- Linde  
- Lufthansa  
- Lucent Technologies  
- PepsiCo  
- Procter & Gamble  
- PolyOne  
- PWS Industries  
- Raytheon  
- Resman  
- Raymond Pfleuger  
- UAB's Institute of Innovation  
- Gent Sasuke  
- Germany  
- Schlumberger  
- General Motors Corp.  
- Geol (CO) Company  
- Gillette  
- Textron Systems  
- U.S. Air Force Research Laboratory  
- United Technologies  
- Carestream Health  

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