

POLYMER MATERIALS AND ENGINEERING AT BEIJING UNIVERSITY OF CHEMICAL TECHNOLOGY, BE/POLYMER ENGINEERING, MS

This five-year program involves initial completion of three years of BE coursework in Polymer Materials and Engineering at BUCT followed by two years of graduate coursework and research in the School of Polymer Science and Polymer Engineering at The University of Akron. BUCT will award the BE degree in Polymer Materials and Engineering to the students of this program after completion of the fourth year of coursework at The University of Akron.

Students will be admitted as undergraduate guest students at The University of Akron after completing three years of BE coursework at BUCT. Students intending to enroll in the BE/MS program will consult the faculty counselors both at BUCT and The University of Akron during their study at BUCT. The admission committee of the School of Polymer Science and Polymer Engineering will evaluate the applications of potential students in their third year. Students meeting the requirements for graduate admission after satisfactory completion of the first year coursework will begin the second year of study with full admission to the graduate school. The MS degree in Polymer Engineering is awarded at the completion of the MS degree requirements, which would typically be at the end of two years of study at The University of Akron

Requirements for the master's degree coursework at The University of Akron are identical to the standard requirements for the MS in Polymer Engineering as follows:

- Complete courses as developed in a plan of study approved by the student's advisor and the department chair.
- A minimum of 30 credits of graduate coursework must be earned.
- A total of 24 credit hours of lecture courses and 6 credit hours of research must be completed.

Code	Title	Hours
Polymer Engineering Core		
9841:611	Fundamentals of Polymer Structure Characterization	3
9841:621	Rheology of Polymer Fluids	3
9841:641	Polymer Chem & Thermodynamics	3
9841:650	Introduction to Polymer Engineering	3
Polymer Engineering 600-level Electives		
Select six credits of the following:		6
9841:601	Seminar in Polymer Engineering	
9841:622	Analysis & Design of Polymer Processing Operations I	
9841:623	Analysis & Design of Polymer Processing Operations II	
9841:631	Engineering Properties of Solid Polymers	
9841:651	Polymer Engineering Laboratory	
9841:661	Polymerization Reactor Engineering	

9841:675	Carbon-Polymer Nanotechnology	
9841:680	Polymer Coatings	
Technical Electives		
Select six credits of the following:		6
4300:681	Advanced Engineering Materials	
4600:622	Continuum Mechanics	
9871:613	Polymer Science Laboratory	
9871:674	Polymer Characterization	
9841:666	Research Methods	
9841:797	Advanced Topics in Polymer Engineering	
Thesis		
9841:699	Masters Thesis	6
Total Hours		30

Thesis and Oral Defense

Each candidate must pass an oral examination in defense of the thesis.

Submit the written master's thesis to the Graduate School by the required deadlines