

# POLYMER SCIENCE AND POLYMER ENGINEERING, MINOR

## Minor in Polymer Science and Polymer Engineering (982100M)

A Minor in Polymer Science and Polymer Engineering provides a broad foundation in the synthesis, characterization, processing and design of polymers. Polymers are large molecules (i.e. macromolecules) that are ubiquitous in the world, ranging from plastics and rubber to protein and DNA.

The following information has official approval of **The School of Polymer Science & Polymer Engineering** and **The College of Engineering and Polymer Science**, but is intended only as a guide. Completion of this minor is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.

The following courses constitute a "Minor in Polymer Science and Polymer Engineering" and must be completed with a minimum grade point average of 2.0 overall for the minor to be noted on the student's record. Please refer to the University Requirements for Minor Areas of Study (<https://bulletin.uakron.edu/undergraduate/important-policies/graduation-requirements/#minor-req>) for specific graduation information regarding minors.

## Summary

Code	Title	Hours
Core		9
Laboratory Experience		3
Electives		6
Total Hours		18

## Core

Code	Title	Hours
9821:201	Introduction to Polymer Science	3
9821:202	Introduction to Polymer Engineering	3
9821:301	Polymer Materials Science and Engineering	3
Total Hours		9

## Laboratory Experience

Code	Title	Hours
<b>Complete three credits</b>		<b>3</b>
9841:451	Polymer Engineering Laboratory	
9841:497	Honors Project	
9841:498	Research Problems in Polymer Engineering <sup>1</sup>	
9841:499	Polymer Engineering Design Project	
9871:405	Polymer Science Laboratory	
9871:497	Honors Project in Polymer Science <sup>1</sup>	
9871:499	Research Problems in Polymer Science <sup>1</sup>	

<sup>1</sup> May be taken multiple semesters to satisfy 3 credit requirement

## Electives <sup>2</sup>

Code	Title	Hours
<b>Complete six credits</b>		<b>6</b>
4200:408	Polymer Engineering	
4800:300	Biomaterials	
9841:422	Polymer Processing	
9841:450	Engineering Properties of Polymers	
9871:403	Polymer Chemistry	
9871:404	Polymer Physics	

<sup>2</sup> Elective courses in other departments (e.g. Biomedical Engineering, Chemical and Biomolecular Engineering, Chemistry, Physics) may be taken as elective courses with permission