

POLYMER SCIENCE AND ENGINEERING CERTIFICATE

The polymer science and engineering (PSE) certificate provides a foundation in polymer synthesis, processing and characterization, and how this relates to polymer structure and properties. This facilitates the proper selection of polymers for various applications such as plastics, composites, biomaterials, organic electronics, and rheology modifiers.

About this Program

- **College:** Herbert Wertheim College of Engineering
- **Credits:** 10, completed with minimum grades of C

Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.

Prerequisites

Code	Title	Credits
CHM 2045	General Chemistry 1	3
or CHM 2095	Chemistry for Engineers 1	
CHM 2046	General Chemistry 2	3
or CHM 2096	Chemistry for Engineers 2	
EMA 3010	Materials	3
Select one:		3
EMA 3011	Fundamental Principles of Materials	
CHM 2200	Fundamentals of Organic Chemistry	
CHM 2210	Organic Chemistry 1	
EMA 3066	Introduction to Organic Materials	3

Required Courses

Code	Title	Credits
EMA 4161	Physical Properties of Polymers	3
EMA 4666	Polymer Processing	3
EMA 4462	Polymer Characterization	3
EMA 4161L	Polymers Laboratory	1
Total Credits		10
