

# POLYMER SPECIALTY - CERTIFICATE

The Polymer Specialty Certificate is designed to provide a strong interdisciplinary educational program for undergraduate engineering and suitably prepared science students interested in pursuing a polymer career. The certificate will also provide knowledge to reduce the training time required to turn Texas A&M students into productive members of the industrial workforce. This program is the first of its kind offered in the State of Texas and is administered by the Polymer Technology Consortium. No other universities in the State of Texas offer a formal polymer curriculum, despite the significant role the polymer industry plays in the state's economy.

## Why Should I Be Interested?

### Benefits:

- Gain an interdisciplinary education with an emphasis in polymers
- Be better prepared for jobs focusing on polymers
- Acquire an edge over students from other universities who have no documented polymer knowledge
- Obtain knowledge to foster entrepreneurial thinking
- Receive recognition on university transcript upon completion of certificate requirements and graduation
- Broaden your exposure to a diverse polymer science and engineering curriculum
- Expand employment horizons beyond the traditional industrial jobs

For additional information, contact MSEN Undergraduate Advising (msen-ug-advising@tamu.edu (msen-advising@tamu.edu)).

## Program Requirements

Code	Title	Semester Credit Hours
Select two of the following:		6
BMEN 482	Polymeric Biomaterials	
CHEM 466	Polymer Chemistry	
CHEN 451	Introduction to Polymer Engineering	
MEEN 455	Engineering with Plastics	
MEEN 458	Processing and Characterization of Polymers	
MSEN 250	Soft Matter	
MSEN 420	Polymer Science	
Select two of the following:		6
BAEN 427	Engineering Aspects of Packaging	
BMEN 482	Polymeric Biomaterials	
BMEN 483	Polymeric Biomaterial Synthesis	
CHEM 466	Polymer Chemistry	
CHEN 451	Introduction to Polymer Engineering	
MEEN 455	Engineering with Plastics	
MEEN 458	Processing and Characterization of Polymers	
MSEN 250	Soft Matter	

MSEN 418	Composites Processing and Performance	
MSEN 420	Polymer Science	
MSEN 426	Polymer Laboratories	
MSEN 485	Directed Studies <sup>1</sup>	
	or MSEN 491 Research	
<b>Total Semester Credit Hours</b>		<b>12</b>

<sup>1</sup> Up to 3 hours of credit can be substituted with research emphasizing polymers (provided polymer coursework has been initiated). Research must be approved by the director of the Polymer Technology Center.

Students should take at least 2 courses outside their department to receive the Polymer Specialty Certificate.

Must earn a grade of C or better in each course used towards certificate.

Must achieve an overall program GPA of 2.5 in approved certificate coursework.