

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 Center. 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 the Polymer Specialty Certificate coordinator at 979-458-0918 or email at icantu@tamu.edu.

Program Requirements

Code	Title	Semester Credit Hours
Select two of the following:		6
AERO 606	Multifunctional Materials	
BMEN 482	Polymeric Biomaterials	
CHEN 451	Introduction to Polymer Engineering	
MEEN 455	Engineering with Plastics	
MEEN 458	Processing and Characterization of Polymers	
MEEN 607/	Polymer Physical Properties	
MSEN 607		
MEEN 635/	Flow and Fracture of Polymeric	
MSEN 635	Solids	
CHEM 466	Polymer Chemistry	
Select two of the following:		6
MEEN 451	Viscoelastic Materials	
MEEN 471	Elements of Composite Materials	
AERO 485	Directed Studies ¹	
	or AERO 490r Research	
BAEN 485	Directed Studies ¹	
	or BAEN or Research	
BMEN 485	Directed Studies ¹	

	or BAEN 490r Research	
CHEM 485	Directed Studies ¹	
	or CHEM or Research	
ECEN 485	Directed Studies ¹	
	or ECEN 490r Research	
MEEN 485	Directed Studies ¹	
	or MEEN or Research	
AERO 685	Directed Studies ¹	
BAEN 685	Directed Studies ¹	
BMEN 685	Directed Studies ¹	
CHEM 685	Directed Studies ¹	
CHEN 685	Directed Studies ¹	
ECEN 685	Directed Studies ¹	
MEEN 685	Directed Studies ¹	
BMEN 683	Polymeric Biomaterial Synthesis ¹	
MEEN 657	Viscoelasticity of Solids and Structures I ¹	
CHEN 642	Colloidal and Interfacial Systems	
Total Semester Credit Hours		12

¹ 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 Certificate.