

# Plastic Manufacturing Technology, Certificate

## School of Technology

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### Program Description

The Certificate in Plastic Manufacturing Technology provides the introduction to manufacturing safety and plastic composites materials.

Skills learned in the Plastic Manufacturing Technology program can readily transfer to a variety of manufacturing fields including aerospace, maritime, construction, medical devices, space, automotive, and military/defense. The certificate prepares students to work as a technician in a variety of fields.

### Career Opportunities

The Plastic Manufacturing Technology Certificate is a good primer for students seeking an entry-level job in a wide range of positions in research and development, manufacturing, sales, design, inspection, or maintenance.

This certificate also serves well for those already working, seeking to supplement their career with more in-depth knowledge of engineering, drafting, and welding.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Communicate technical information effectively
- Demonstrate scientific observation skills
- Operate equipment and/or relevant software
- Promote safety and quality in the workplace
- Define the technical properties of plastics and apply them using quantifiable methods
- Summarize plastic mold concepts and determine how to avoid costly design mistakes
- Describe methods to communicate the troubleshooting process and solutions

Sugg. Term	Seq #	Course ID	Course Title	Cr.	Prereq/Coreq(Co)	Options Available
Fall	1	PDV 101	First Year Seminar	1		
	2	MTH 104	Introduction to Applied Mathematics	4	MTH 050, MTH 050A, or Placement	
	3	PMT 105	Introduction to Plastic Materials	3		
	4	PMT 120	Introduction to Plastic Manufacturing Processing	3	PMT 105	
Spring	5	PMT 130	Plastic Processing and Machinery	3	PMT 105	
	6	PMT 135	Plastics Quality and Testing	3	PMT 105	

Total Program Credits

17

PMT