



SOUTHERN UNION  
STATE COMMUNITY COLLEGE  
Technical Division

Associate in Applied Science in Advanced Manufacturing Concentration Area: Plastics Engineering Technology				
Semester	Course Prefix	Course Description	AAS	Complete
1 <sup>st</sup> Semester	ADM 291	MSSC Safety	3	
	AUT 145	Introduction to Injection Molding	3	
	AUT 146	Introduction to Injection Molding Lab	3	
	INT 117	Principles of Industrial Mechanics	3	
	MTH 100	Intermediate College Algebra or Higher	3	
2 <sup>nd</sup> Semester	ADM 292	MSSC Quality Practices and Measurement	3	
	INT 112	Industrial Maintenance Safety Procedures	3	
	AUT 173	Injection Mold Setter Skills	3	
	AUT 175	Injection Mold Setter Skills Lab	3	
	ENG 101	English Composition I	3	
3 <sup>rd</sup> Semester	ADM 293	MSSC Manufacturing Processes and Production	3	
	ADM 147	Injection Mold Design	3	
	MTT 205	Mold Repair and Maintenance	3	
	INT 118	Fundamentals of Hydraulics and Pneumatics	3	
	*	Natural Science or Math Elective	3	
4 <sup>th</sup> Semester	ADM 294	MSSC Maintenance Awareness	3	
	INT 184	Introduction to programmable Logic Controllers	3	
	AUT 273	Injection Mold Processing	3	
	AUT 275	Injection Mold Processing Lab	3	
	*	Humanities and Fine Arts Elective	3	
5 <sup>th</sup> Semester	ADM 205	Advanced Injection Molding	3	
	INT 132	Preventative and Predictive Maintenance	3	
	INT 139	Introduction to Robot Operation and Programming	3	
	*	Social and Behavioral Sciences Elective	3	
<b>Total Hours:</b>			<b>72</b>	

\*Denotes a required academic elective to be chosen by the student.



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## Short Certificates Available in this Program of Study

Basic Injection Molding Short Certificate	
Course Prefix	Course Description
AUT 145	Introduction to Injection Molding
AUT 146	Introduction to Injection Molding Lab
INT 117	Principles of Industrial Mechanics
Total Hours: 9	

Mold-Setter Short Certificate	
Course Prefix	Course Description
INT 112	Industrial Maintenance Safety Procedures
AUT 173	Injection Mold Setter Skills
AUT 175	Injection Mold Setter Skills Lab
Total Hours: 9	

Process Technician Short Certificate	
Course Prefix	Course Description
INT 184	Introduction to programmable Logic Controllers
AUT 273	Injection Mold Processing
AUT 275	Injection Mold Processing Lab
ADM 205	Advanced Injection Molding
INT132	Preventative and Predictive Maintenance
INT 139	Introduction to Robot Operation and Programming
Total Hours: 18	

Manufacturing Production Technician Short Certificate	
Course Prefix	Course Description
ADM 291	MSSC Safety
ADM 292	MSSC Quality Practices and Measurement
ADM 293	MSSC Manufacturing Processes and Production
ADM 294	MSSC Maintenance Awareness
Total Hours: 12	

Basic Tool and Die (Mold Focus) Short Certificate	
Course Prefix	Course Description
ADM 147	Injection Mold Design
MTT 205	Mold Repair and Maintenance
INT 118	Fundamentals of Hydraulics & Pneumatics
Total Hours: 9	