



SOUTHERN UNION
STATE COMMUNITY COLLEGE
Technical Division

Associate in Applied Science in Engineering & Design				
Semester	Course Prefix	Course Description	AAS	Complete
1 st Semester	DDT 104	Basic Computer Aided Drafting & Design	3	
	DDT 111	Fundamentals of Drafting & Design	3	
	ADM 202	Introduction to Technology Design	3	
	ADM 112	Orientation to Additive Manufacturing	1	
	MTH 100	Intermediate College Algebra or Higher	3	
2 nd Semester	DDT 127	Inter. Computer Aided Drafting & Design	3	
	DDT 125	Surface Development	3	
	DDT 233	Intermediate 3D Modeling	3	
	ENT 217	Machine Design	3	
	ENG 101	English Composition I	3	
3 rd Semester	ADM 160	Additive Manufacturing Production Tech.	3	
	ADM161	Specialized Software techniques	3	
	ADM 162	Additive Manufacturing Processes Polymers	3	
	ADM 164	Additive Manufacturing Processes Metals	3	
	*	Natural Science or Math Elective	3	
4 th Semester	ADM101	Precision Measurement	3	
	ADM 261	Reverse Engineering	3	
	ADM 128	Plastics Material Processes	3	
	ENT 214	Advanced AutoCAD CADD	3	
	*	Humanities and Fine Arts Elective	3	
5 th Semester	DDT 133	Basic Surveying	3	
	DDT 228	Geographic Information Systems	3	
	DDT 132	Architectural Drafting	3	
	*	Social and Behavioral Sciences Elective	3	
Total Hours:			72	

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



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Short Certificates Available in this Program of Study

Basic CAD Short Certificate	
Course Prefix	Course Description
DDT 104	Basic Computer Aided Drafting & Design
DDT 111	Fundamentals of Drafting & Design
ADM 202	Introduction to Technology Design
ADM 112	Orientation to Additive Manufacturing
Total Hours:	10

3D Modeling Short Certificate	
Course Prefix	Course Description
DDT 127	Intermediate Computer Aided Drafting & Design
DDT125	Surface Development
DDT233	Intermediate 3D Modeling
ENT 217	Machine Design
Total Hours:	12

Reverse Engineering Short Certificate	
Course Prefix	Course Description
ADM 101	Precision Measurement
ADM 261	Reverse Engineering
ADM 128	Plastics Material Processes
ENT 214	Advanced AutoCAD CADD
Total Hours:	12

Additive Manufacturing Short Certificate	
Course Prefix	Course Description
ADM 160	Additive Manufacturing Production Techniques
ADM 161	Specialized Software techniques
ADM 162	Additive Manufacturing Processes Polymers
ADM 164	Additive Manufacturing Processes Metals
Total Hours:	12

Civil GIS Short Certificate	
Course Prefix	Course Description
DDT 133	Basic Surveying
DDT 228	Geographic Information Systems
DDT132	Architectural Drafting
Total Hours:	9