



SOUTHERN UNION  
STATE COMMUNITY COLLEGE

# SUCCESS GUIDE



AUBURN  
UNIVERSITY

## Associate in Applied Science - Advanced Manufacturing - Industrial and Systems Engineering + Mechatronics Certificate Path to the Plains

Semester	Grade	Course	Course Description	Credit Hours	Area
1		ENG 101	English Composition I (Minimum grade of C required)	3	I
		ART 100 or MUS 101 or THR 120	Art Appreciation or Music Appreciation or Theatre Appreciation	3	II
		MTH 125	Calculus I	4	III
		CHM 111	College Chemistry I	4	III
		ENGR 1100	Engineering Orientation	0	V
		ENGR 1110	Introduction to Engineering	2	V
			Semester Total	16	
2		ENG 102	English Composition II (Minimum grade of C required)	3	I
		PSY 200	General Psychology	3	IV
		MTH 126	Calculus II	4	V
		PHY 213	General Physics I with Calculus	4	III
		COMP 1200	Introduction to Computing for Engr & Sci - MATLAB	2	V
			Semester Total	16	
Summer Manufacturing Mechatronics Short-Term Certificate		INT 118*	Fundamentals of Industrial Hydraulics and Pneumatics	3	V
		INT 184*	Introduction to Programmable Logic Controllers	3	V
		INT 139*	Introduction to Robotic Programming	3	V
		MSP 125*	Introduction to Machining Technology	3	V
			Semester Total	12	
3		PHY 214	General Physics II with Calculus	4	V
		MTH 227	Calculus III	4	V
		MTH 237	Linear Algebra	3	V
		STAT 3600	Probability and Statistics I	3	V
		AUT 197*	Special Topics (Machining)	2	V
			Semester Total	16	
4		AUT 232*	Sensors Technology and Applications	3	V
		MTH 238	Applied Differential Equations I	3	V
		INSY 3020	Occupational Safety Ergonomics	3	V
		INSY 3021	Methods Engineering and Work Measurement	3	V
		STAT 3610/3611	Probability and Statistics II & Lab	4	V
		Semester Total	16		
Total credit hours to be taken at Auburn University - 17			TOTAL HOURS	76	

2021 - 2022 Catalog

\*Courses meet requirements for the Associate in Applied Science and Manufacturing Mechatronics Short-term Certificate only.