



SOUTHERN UNION
STATE COMMUNITY COLLEGE
Technical Division

Associate in Occupational Technology: Automotive Technology					
Semester	Course Prefix	Course Description	AOT	Long Cert	Complete
1 st Semester	AUM 101	Fundamentals of Automotive Technology	3	3	
	AUM 112	Electrical Fundamentals	3	3	
	AUM 162	Electrical and Electronic Systems	3	3	
	ILT 160 or INT 101	DC Fundamentals	3	3	
	MTH 116	Mathematical Applications	3	3	
2 nd Semester	AUM 121	Braking Systems	3	3	
	AUM 122	Steering and Suspension	3	3	
	AUM 124	Automotive Engines	3	3	
	AUM 239	Engine Performance I	3	3	
	ENG 101 or ENG 131	English Composition I Applied Writing	3	3	
3 rd Semester	AUM 130	Drive Train and Axles	3	3	
	AUM 224	Manual Transmissions and Transaxle	3	3	
	AUM 230	Automatic Transmission and Transaxle	3	3	
	*	Humanities and Fine Arts Elective	3		
4 th Semester	AUM 220	Advanced Automotive Engines	3	3	
	AUM 244	Engine Performance and Diagnostics	3	3	
	AUM 246	Automotive Emissions	3	3	
	AUM 133	Motor Vehicle Air Conditioning	3	3	
	*	Natural Science or Math Elective	3		
5 th Semester	ILT 162	Solid State Fundamentals	3		
	ILT 163	Digital Fundamentals	3		
	ILT 166	Motors and Transformers	3		
	*	Social and Behavioral Sciences Elective	3		
Total Hours:			72		

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

Short Certificate Available in this Program of Study

Automotive Service Short Certificate	
Course Prefix	Course Description
AUM 101	Fundamentals of Automotive Technology
AUM 112	Electrical Fundamentals
AUM 162	Electrical and Electronic Systems
AUM 121	Braking Systems
AUM 122	Steering and Suspension
AUM 124	Automotive Engines
AUM 239	Engine Performance I
Total Hours: 21	

Approved 11/22/2019 by: Eric Sewell (Director of Technical Education)