

Central Carolina Community College
Program Planning Guide

Automotive Systems Technology
Credential: Associate in Applied Science
Degree in Automotive Systems Technology
A60160

This curriculum prepares individuals for employment as automotive service technicians. It provides an introduction to automotive careers and enhances the student's awareness of having to meet the challenges of this fast and ever-changing field. Classroom and lab experiences integrate technical and academic coursework. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/transaxles, engine repair, climate control, and manual drive trains.

Upon completion of this curriculum students should be prepared for ASE certification and be ready for full-time employment in dealerships and repair shops in the automotive service industry. Cooperative education opportunities may be available at some North Carolina Community Colleges.

Program Length: 5 semesters

Career Pathway Options: Associate in Applied Science Degree in Automotive Systems Technology

Program Sites: Lee Campus - Day Program

Suggested Course Schedule:	HOURS			Grade	Semester	Notes
	Class	Lab	Credit			
1st Semester (Fall)						
AUT 110	Intro to Auto Technology	2	2	3		
AUT 141	Suspension & Steering Systems	2	3	3		
AUT 141A	Suspension & Steering Systems Lab	0	3	1		
AUT 161	Basic Auto Electricity	4	3	5		
CIS 111	Basic PC Literacy	1	2	2		
OR AUT 186	PC Skills for Auto Techs	2	2	3		
MAT 115	Mathematical Models	2	2	3		
OR PHY 121	Applied Physics I	3	2	4		
		11/13	15	17/19		
2nd Semester (Spring)						
AUT 151	Brake Systems	2	3	3		
AUT 151A	Brake Systems Lab	0	3	1		
AUT 163	Adv. Auto Electricity	2	3	3		
AUT 163A	Adv. Auto Electricity Lab	0	3	1		
AUT 181	Engine Performance I	2	3	3		
AUT 181A	Engine Performance I Lab	0	3	1		
ENG 110	Freshman Composition	3	0	3		
OR ENG 111	Expository Writing	3	0	3		
AND 111A	Expository Writing Lab	0	2	1		
		9-18	20	15/16		
3rd Semester (Summer)						
AUT 114	Safety and Emissions	1	2	2		
AUT 114A	Safety and Emissions Lab	0	2	1		
AUT 171	Auto Climate Control	2	4	4		
AUT 183	Engine Performance II	2	6	4		
		5	14	11		
4th Semester (Fall)						

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AUT 116	Engine Repair	2	3	3			
AUT 116A	Engine Repair Lab	0	3	1			
AUT 212	Auto Shop Management	3	0	3			
AUT 231	Manual Drive Train/Axles	2	3	3			
AUT 231A	Manual Trans/Axles/Drtrains Lab	0	3	1			
ENG 114	Professional Research & Reporting	3	0	3			
OR ENG 116	Technical Report Writing	3	0	3			
WLD 112	Basic Welding Processes	1	3	2			
		11	15	16			

5th Semester (Spring)

AUT 221	Auto Transm/Transaxles	2	3	3			
AUT 221A	Auto Transm/Transaxles Lab	0	3	1			
AUT 281	Advanced Engine Performace	2	2	3			
AUT 283	Advanced Auto Electronics	2	2	3			
	Humanities/Fine Arts Elective	3	0	3			
	Social/Behavioral Science Elective	3	0	3			
		12	10	16			

Total Semester Hours Credit: 75/78