

**Central Carolina Community College
Program Planning Guide**

**Automotive Systems Technology Credential: Diploma in Automotive Systems Technology
D60160**

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: 3 semesters

Career Pathway Options: Associate in Applied Science Degree in Automotive Systems Technology (Higher entrance standards required); Diploma 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 Sys	2	3	3		
AUT 141A	Suspension & Steering Sys Lab	0	3	1		
AUT 161	Basic Auto Electricity	4	3	5		
AUT 186	PC Skills for Auto Techs	2	2	3		
OR CIS 111	Basic PC Literacy	1	2	2		
*MAT 101	Applied Mathematics I	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	Advanced Auto Electricity	2	3	3		
AUT 163A	Advanced Auto Electricity Lab	0	3	1		
AUT 181	Engine Performance I	2	3	3		
AUT 181A	Engine Performance I Lab	0	3	1		
*ENG 102	Applied Communication II	3	0	3		
		9	18	15		
3rd Semester (Summer)						
AUT 114	Safety & Emissions	1	2	2		
AUT 114A	Safety & Emissions Lab	0	2	1		
AUT 171	Auto Climate Control	2	4	4		
AUT 183	Engine Performance-Fuels	2	6	4		
		5	14	11		

*These courses are not transferable to the Associate in Applied Science Degree.

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Total Semester Hours Credit: 43/45