AUTOMOTIVE SERVICE TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE

Curriculum

The matrix below is a sample plan for all coursework required for this program.

Course	Title	Hours
First Year		
Fall		
AST 1003	Automotive Electronics	3
AST 1004	Gasoline Engine Theory	4
AST 1113	Introduction to Automotive Drivetrains	3
CIS 1113 or BST 1303	Fundamental Computer Operation or Introduction to Computers	3
ENGL 1013	Composition I	3
	Hours	**16**
Spring		
AST 1005	Engine Performance	5
AST 1103	Automotive Brake Systems	3
AST 1213	Automotive Chassis and Steering	3
AST 2103	Advanced Automotive Electronics	3
TMAT 1203	Technical Mathematics	3
	Hours	**17**
Summer		
AST 1203	Automotive Climate Control	3
	Hours	**3**
Second Year		
Fall		
AST 1223	Advanced Automotive Drivetrains	3
AST 2203	Diesel Theory	3
AST 2303	Alternative Automobile Fuels and Technology	3
AST 2003	Career Readiness	3
ENGL 1023	Composition II	3
	Hours	**15**
Spring		
INT 2903	Internship (or AST Approved Elective)	3
WLD 1403	Welding for Trades and Industry	3
SS 1XXX	Social Science Courses	3
	Hours	**9**
	Total Hours	**60**

Approved Electives must be approved by the program director.

Learning Outcomes

Upon completion of the Associate of Applied Science degree in Automotive Service Technology, a graduate will be able to:

- Proper use of automotive tools
- Diagnose mechanical gasoline engine problems
- Operate electronic automotive service manuals
- Repair automotive gasoline engines
- Operate automotive diagnostic equipment
- Diagnose and repair automotive brake system
- Diagnose and repair automotive chassis and steering
- Diagnose and repair automotive climate control systems
- Diagnose and repair automotive manual power trains
- Diagnose and repair automatic power trains
- Recognize automotive electronic components
- Repair automotive electrical systems
- Repair/diagnose automotive drivability complaints