

Associate of Science in Automotive Service Technology General Service Technician

Program Mission

The mission of the Automotive program is to develop a skilled and competent automotive workforce, based on industry needs, for the Guam community and the region.

Program Description

The Associate of Science program in Automotive Service Technology General Service Technician offers students both a comprehensive general education as well as advanced technical training in automotive systems to include: Brakes, Electrical/Electronics, Engine Performance, and Suspension & Steering. In addition, introductory training is provided in Automatic Transmission/Transaxle, Manual Transmission/Transaxle, and Engine Repair.

Students enrolled in the program will receive instruction designed to prepare them to pass the four general service certification examinations administered by the National Institute for Automotive Service Excellence (ASE). Upon passage of examinations and after two years of automotive industry experience, students will receive ASE Certification in Electrical/Electronics, Engine Performance, Brakes, and Suspension and Steering.

Program Student Learning Outcomes (SLOs):

Upon successful completion of the AS in Automotive Service Technology program, students will be able to:

1. Identify the purpose and proper functioning of the core components of an automotive engine.
2. Perform a cylinder compression cranking test.
3. Demonstrate the proper use of a digital multimeter (DMM) during diagnosis of electrical circuit problems.

General Education Requirements		
Course #	Course Name	Credits
ENXXX	English Composition Requirement	3
MAXXX	Mathematics Requirement	3-4
SIXXX	Natural & Physical Sciences Requirement	4
XXXXX	Social & Behavioral Sciences Requirement	3
CSXXX	Computer Literacy Requirement	3
Humanities & Fine Arts Requirement (Choose 1)		
ASL 100	American Sign Language I	4
JA 110	Beginning Japanese	
CH 110	Chamorro I	
Total		20-21
Technical/Core Requirements		
Course #	Course Name	Credits

AST 100	Introduction to Automotive Service	3
AST 110	Engine Repair	3
AST 120	Automatic Transmission and Transaxle	3
AST 130	Manual Drive Train and Axles	3
AST 140	Suspension and Steering	3
AST 180A	Engine Performance I	3
AST 150	Brakes	3
AST 160	Electrical/Electronic Systems	3
AST 180B	Engine Performance II	3
AST 240	Theory/Practicum: Suspension & Steering	2
AST 250	Theory/Practicum: Brakes	2
AST 260	Theory/Practicum: Engine Performance	4
AST 280	Theory/Practicum: Electrical/Electronic	5
Total		40
Program Total		60-61

Associate of Science in Automotive Service Technology General Service Technician – Semester Breakdown

Year 1			Year 2		
Semester 1			Semester 3		
Course #	Course Name	Credits	Course #	Course Name	Credits
ENXXX	English Composition Requirement	3	AST150	Brakes	3
MAXXX	Mathematics Requirement	3-4	AST160	Electrical/Electronic Systems	3
XXXX	Social and Behavioral Requirement	3	AST180 B	Engine Performance II	3
CSXXX	Computer Literacy Requirement	3	AST240	Theory/Practicum: Suspension & Steering	2
AST100	Introduction to Automotive Service	3	SIXXX	Natural and Physical Sciences Requirement	4
Total		15-16	Total		15
Semester 2			Semester 4		
Course #	Course Name	Credits	Course #	Course Name	Credits
AST110	Engine Repair	3	AST250	Theory/Practicum: Brakes	2
AST120	Automatic Transmission and Transaxle	3	AST280	Theory/Practicum: Engine Performance	5
AST130	Manual Drive Train and Axles	3	AST260	Theory/Practicum: Electrical/Electronic	4
AST140	Suspension and Steering	3	XXXX	Humanities & Fine Arts Requirement	4
AST180 A	Engine Performance I	3			
Total		15	Total		15
Year 1 Total		30-31	Year 2 Total		30
Program Total				60-61	