

ASSOCIATE OF APPLIED SCIENCE (A.A.S.)

GATEWAY COMMUNITY COLLEGE UNOFFICIAL ADVISEMENT CHECK SHEET

Description: The Associate in Applied Science (AAS) in Automotive Service prepares individuals to apply technical knowledge and skills to repair, service, and maintain automobiles. Instruction is in both the theoretical and practical aspects of automotive repair, service and maintenance, and includes brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drivetrains, and heating and air conditioning systems. The curriculum within this certificate aligns with the Automotive Service Excellence (ASE) Automobile Certification Tests (A1 - A8).

Program Notes: Students must earn a grade of "C" or better in all courses within the program.
+ indicates course has prerequisites and/or corequisites.

NAME	SID	LAST REVISED DATE	MAJOR CODE: 3180 - Evening	
			AUTOMOTIVE TECHNOLOGY	
I. GENERAL EDUCATION CORE REQUIREMENTS (18 - 23 CREDITS)				
Must earn "C" or higher in all courses within the program		CREDITS	GRADE	COMMENTS
ENG101 or ENG107		3		
ENG102 or ENG111		3		
COM100 or 110 or 225 or 230		3		
CRE101 or 111 or Test Exempt		0-3		
GTC107 Technical Mathematics or MAT 140 or 141 or 142 or Any approved general education course in the Mathematical Applications		3-5		
Humanities/Fine Arts*		2-3		
Social/Behavior Science*		3		
II. REQUIRED COURSES (41 CREDITS)				
Fall Semester I				
ASE101 Intro to Automotive		2		
+ASE102 AUTOMOTIVE EXPRESS SERVICE		2		
+ASE161 BASIC ELECTRICAL I		2		
+ASE151 BRAKES I		2		
+ASE251 BRAKES II		2		
SPRING SEMESTER I				
+ASE162 ELECTRICAL II		2		
+ASE261 ELECTRICAL III		2		
+ASE181 ENGINE PERFORMANCE I		2		
+ASE141 STEERING & SUSPENSION I		2		
+ASE241 STEERING & SUSPENSION II		2		
SUMMER SEMESTER				
+ASE262 ELECTRICAL IV		2		
+ASE263 HYBRID SYSTEMS		2		
FALL SEMESTER II				
+ASE121 AUTOMATIC TRANSMISSIONS		4		
+ASE182 ENGINE PERFORMANCE II		2		
+ASE281 ENGINE PERFORMANCE III		2		
SPRING SEMESTER II				
+ASE131 MANUAL TRANSMISSIONS		4		
+ASE111 ENGINE DIAGNOSIS AND INSPECTION		2		
+ASE171 AIR CONDITIONING		3		

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III. RESTRICTED ELECTIVES (3 CREDITS)			
ASE264 ADVANCED AUTOMOTIVE ELECTRICAL SYSTEMS 3 ASE265 INTRODUCTION TO ELECTRIC DRIVE VEHICLES 3 ASE266 ELECTRIC/HYBRID HIGH VOLTAGE BATTERIES 1 ASE267 ELECTRIC VEHICLE OPERATION AND DIAGNOSIS 3 ASE290++ AUTOMOTIVE SERVICE INTERNSHIP (ANY SUFFIXED COURSES) 1-3 ASE296++ COOPERATIVE EDUCATION (ANY SUFFIXED COURSES) 1-3 ASE298++ SPECIAL PROJECTS (ANY SUFFIXED COURSES) 1-3 DIE104 ELECTRICAL FOR DIESEL ENGINES I 3 DIE106 MOBILE HYDRAULICS AND PNEUMATICS 3 DIE108 HEAVY DUTY DIESEL POWER TRAINS 3 DIE112 GENERAL DIESEL ENGINES 3 MET109 MACHINE TRADES PRINT READING 3 MET231 MANUFACTURING PROCESSES AND MATERIALS 3 MFG102 MACHINE PROCESSES, THEORY AND APPLICATION 3 OSH106 INDUSTRIAL SAFETY 2 WLD101 WELDING I 3	3		
<i>This is an unofficial advisement checksheet developed by the Industrial Technology Division. No certificate or degree is considered official until it has been reviewed and approved by the Admissions and Records Department.</i> <i>*Courses must meet AAS General Education Requirements (see catalog).</i>			

The official curriculum outline for this program is located on the Maricopa Community Colleges Curriculum & Transfer Articulation site at: <http://aztransmac2.asu.edu/cgi-bin/WebObjects/MCCCD.woa/wa/freeForm13?id=137543>