

DIVISION	Applied Technology & Transportation
DIVISION DEAN	Gary Kelly, M.S.
FACULTY CHAIR	Donald Wilson (909) 384-8505
OTHER FACULTY	Guy M. Hinrichs, Sr., A.A. Richard Jaramillo, A. A. Manuel Loera, A.S. Mark Williams, B.S.
DIVISION OFFICE	Technical 108 (909) 384-4451

The Automotive Department offers courses designed to provide the skills and knowledge required for immediate employment as well as for students with a personal interest in automotive technology.

The course of study in automotive technology may lead to an Associate of Science Degree or a CTE certificate.

AUTOMOTIVE TECHNOLOGY ASSOCIATE OF SCIENCE DEGREE

To graduate with a specialization in Automotive Technology, students must complete the following required courses for one of the following certificates plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

AUTOMOTIVE TECHNOLOGY CERTIFICATES

AUTOMATIC TRANSMISSION CERTIFICATE

This certificate is designed to prepare students for entry-level work as an automatic transmission specialist.

REQUIRED COURSES	UNITS
AUTO 064 Automotive Electrical: Battery, Starting and Charging Systems	5
or	
AUTO 065 Electrical Accessory Diagnostic	5
AUTO 075x3 Automatic Transmission Rear Wheel Drive	2 - 6
AUTO 076x3 Automatic Transaxles Front Wheel Drive	2 - 6
AUTO 077 Manual Transmissions and Transaxles	4
AUTO 084 General Automotive Technology	4
AUTO 090x3 Engine Repair	6
TECALC 950 Shop Calculations	3
or	
MATH 942 Arithmetic	(3)
or	
Higher-level math course	(3)
TOTAL UNITS	27-35



BASIC AUTOMOTIVE BODY & PAINT TECHNICIAN

This certificate is designed to prepare students for entry-level work as an auto body repair apprentice, an auto painter apprentice or in related areas of an automotive dealership or shop, such as chassis, front end, brake or frame repair, and parts counter clerk.

REQUIRED COURSES	UNITS
AUTO 038x3 Basic Auto Body	9
AUTO 039x3 Secondary Auto Body	9
AUTO 048x3 Intermediate Auto Body	9
AUTO 055 Advanced Auto Body	5
TECALC 950 Shop Calculations	3
TOTAL UNITS	35

Auto 038x3 may be waived through the Articulation 2+2+2 program with prior agreement with the Auto Body and Refinishing Instructor.

ADVANCED AUTOMOTIVE BODY & PAINT TECHNICIAN

This certificate is designed to prepare students for entry-level work as an auto body repair apprentice and an auto painter apprentice beyond the Basic Automotive Body and Paint Technician Certificate, and to prepare students for Automotive Service Excellence (ASE) certification.

REQUIRED COURSES	UNITS
AUTO 038x3 Basic Auto Body	9
AUTO 039x3 Secondary Auto Body	9
AUTO 048x3 Intermediate Auto Body	9
AUTO 055 Advanced Auto Body	5
AUTO 056 Automotive Heating and Air Conditioning	4

Must complete one subject from each category:

Category 1:		
AUTO 052 Automotive Suspension and Steering		4
Category 2:		
AUTO 064 Automotive Electrical	OR	5
AUTO 065 Automotive Body Electrical		5
Category 3:		
TECALC 950 Shop Calculations		3
TOTAL UNITS		49

AUTOMOTIVE TECHNICIAN

This certificate is designed to prepare students for entry-level work as an automotive technicians working in areas such as new car preps, engine performance diagnosis, automotive maintenance, and automotive service.

REQUIRED COURSES		UNITS
AUTO 050	Automotive Brake	4
AUTO 052	Automotive Suspension and Steering	4
AUTO 056	Automotive Heating and Air Conditioning	4
AUTO 064	Automotive Electrical: Battery, Starting and Charging Systems	5
AUTO 065	Electrical Accessory Diagnostic	5
AUTO 068	Engine Performance-Ignition Systems	5
AUTO 069	Engine Performance-Fuel and Exhaust System	5
AUTO 075x3	Automatic Transmission Rear Wheel Drive	2-6
or		
AUTO 076x3	Automatic Transaxles Front Wheel Drive	(2-6)
AUTO 077	Manual Transmissions and Transaxles	4
AUTO 084	General Automotive Technology	4
AUTO 090x3	Engine Repair	6
TECALC 950	Shop Calculations	3
or		
MATH 942	Arithmetic	(3)
or		
	Higher-level math course	(3)
TOTAL UNITS		51-55

ENGINE PERFORMANCE

This certificate is designed to prepare students for entry-level work as an engine performance specialists in areas such as computer systems, electrical systems, engine fuel and exhaust systems, and basic engine diagnosis.



REQUIRED COURSES		UNITS
AUTO 063	Emission-Systems	4
AUTO 064	Automotive Electrical: Battery, Starting and Charging Systems OR	5
AUTO 065	Electrical Accessory Diagnostic	5
AUTO 066	ASE Alternative A-6, A-8, L-1 Prep or Certificate	4
AUTO 067	Automotive Emissions	4
AUTO 068	Engine Performance-Ignition Systems	5
AUTO 069	Engine Performance-Fuel and Exhaust Systems	5
AUTO 084	General Automotive Technology	4
AUTO 090x3	Engine Repair	6
TECALC 950	Shop Calculations	3
or		
MATH 942	Arithmetic	(3)
or		
	Higher-level math course	(3)
TOTAL UNITS		45

WHEEL ALIGNMENT AND BRAKES

This certificate is designed to prepare students for entry-level work as an automotive technician working in the area of wheel alignment and brake repair.

REQUIRED COURSES		UNITS
AUTO 050	Automotive Brake	4
AUTO 052	Automotive Suspension and Steering	4
AUTO 053	Advanced Automotive Suspension and Steering	4
AUTO 064	Automotive Electrical: Battery, Starting and Charging Systems	5
AUTO 084	General Automotive Technology	4
TECALC 950	Shop Calculations	35
or		
MATH 942	Arithmetic	(3)
or		
	Higher-level math course	(3)
TOTAL UNITS		28

