

DEKALB TECHNICAL COLLEGE
Clarkston Campus

AUTOMOTIVE TECHNOLOGY
MANUAL DRIVE TRAIN AND AXLE TECHNICIAN
TECHNICAL CERTIFICATES OF CREDIT

The Automotive Technology Technical Certificates of Credit programs are sequences of courses designed to prepare students for careers in the automotive service and repair profession. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The programs emphasize a combination of automotive mechanics theory and practical application necessary for successful employment as automotive technicians, service advisors, or in management.

<u>Course Number</u>	<u>Course</u>	<u>Class Hours</u>	<u>Lab Hours</u>	<u>Total Hours</u>	<u>Credit Hours</u>	<u>Prerequisites/Corequisites</u>
AUT 120	Introduction to Automotive Technology	20	30	50	3	
AUT 122	Electrical and Electronic Systems	40	60	100	6	AUT 120
AUT 134	Drivelines	20	60	80	4	AUT 122
AUT 138	Manual Transmissions/Transaxles	30	30	60	4	AUT 122

CIP CODE: 47.060401

MAJOR CODE: MV01

REQUIRED CREDIT HOURS: 17

10/07

The curriculum is subject to change to meet changing conditions. As set forth in its catalog, DeKalb Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, veteran status, or citizenship status (except in those special circumstances permitted or mandated by law).

AUTOMOTIVE TECHNOLOGY COURSE DESCRIPTIONS

AUT 120 - INTRO TO AUTOMOTIVE TECHNOLOGY (3)

Introduces basic concepts and practices necessary for safe and effective automotive shop operation. Topics include: safety procedures; legal/ethical responsibilities; shop organization, management, and work flow systems; measurement techniques; and hand tools.

AUT 122 - ELECTRICAL & ELECTRONIC SYSTEMS (6)

Prerequisite/Corequisite: AUT 120

Introduces automotive electricity. Topics include: general electrical system diagnosis; lighting system diagnosis and repair; gauges, warning devices, and driver information system diagnosis and repair; horn and wiper/washer diagnosis and repair; accessories diagnosis and repair.

AUT 134 – DRIVELINES

(4)

Prerequisite: AUT 122

Introduces basics of rear-wheel drive, front-wheel drive, and four-wheel drive driveline related operation, diagnosis, service and related electronic controls. Topics include: drive shaft and half shaft, universal and constant-velocity (cv) joint diagnosis and repair; ring and pinion gears and differential case assembly; limited slip differential; drive axle shaft; four-wheel drive/all-wheel drive component diagnosis and repair.

AUT 138 - MANUAL TRANSMISSION/TRANSAXLE (4)

Prerequisite: AUT 122

Introduces basics of front and rear-wheel drive. Clutch operation, diagnosis and service are included. Electronic controls related to transmission/transaxle operation are discussed. Topics include: clutch diagnosis and repair; transmission/transaxle diagnosis and repair.

ESTIMATED PROGRAM COSTS

MANUAL DRIVE TRAIN AND AXLE TECHNICIAN

Tuition/Fees.....	\$544.00
Books.....	140.00
Supplies.....	100.00
Total.....	\$784.00

Tuition/fees and cost of books/supplies are estimates only and are subject to change without notice. Tuition is based on Georgia residency.

10/07