

**DEKALB TECHNICAL COLLEGE**  
**Clarkston Campus**

ACE1

**AUTOMOTIVE TECHNOLOGY**  
**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.

**AUTOMOTIVE AIR CONDITIONING / ELECTRICAL TECHNICIAN**

Course Number	Course	Class Hours	Lab Hours	Total Hours	Credit Hours	Prerequisites/Corequisites
AUT 120	Introduction to Automotive Technology	20	30	50	3	
AUT 122	Electrical and Electronic Systems	40	60	100	6	AUT 120
AUT 124	Battery, Starting, Charging Systems	20	60	80	4	AUT 122
AUT 142	Climate Control Systems	50	30	80	6	AUT 122

CIP CODE: 47.060401

MAJOR CODE: ACE1

REQUIRED CREDIT HOURS: 19

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 124 - BATTERY, STARTING & CHARGING SYS(4)**

Prerequisite/Corequisite: AUT 122

Emphasizes the basic principles, diagnosis, and service/repair of batteries, starting systems, starting systems components, alternators, and regulators. Topics include: battery diagnosis and service; starting system diagnosis and repair; charging system diagnosis and repair.

**AUT 142 - CLIMATE CONTROL SYSTEMS (6)**

Prerequisite: AUT 122

Introduces the theory and operation of automotive heating and air conditioning systems. Students attain proficiency in inspection, testing, service, and repair of heating and air conditioning systems and related components. Topics include: a/c system diagnosis and repair; refrigeration system component diagnosis and repair; heating, ventilation, and engine cooling systems diagnosis and repair; operating systems and related controls diagnosis and repair; refrigerant recovery, recycling, and handling.

**ESTIMATED PROGRAM COSTS**

**AUTOMOTIVE AC/ELECTRICAL TECHNICIAN**

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

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