AUTO MECHANICS TECHNOLOGY ATC

The Automotive Technology Advanced Technical Certificate prepares students for careers in a rapidly evolving, technology-driven industry. Modern vehicles are complex systems that integrate electronics, network communication, advanced sensors, and computer-controlled powertrains. This program is designed for students who want to develop the skills to diagnose and repair these systems at a professional level.

Instruction combines applied theory with hands-on laboratory work and live shop experience. Each course is structured to build both technical knowledge and real-world problem-solving ability. Students learn to operate industry-standard tools, diagnostic equipment, and software while developing the discipline and precision required in today's automotive field in modern lab facilities.

The program is aligned with Automotive Service Excellence (ASE) standards and emphasizes competency across all major vehicle systems, including engine repair, drivetrain systems, steering and suspension, braking systems, heating and air conditioning, electrical and electronic systems, and engine performance diagnostics. Students are expected to think critically, work efficiently, and approach diagnostics with a methodical and professional mindset. The program maintains a high standard of performance and accountability, requiring students to demonstrate competency through nationally recognized assessments.

Students are required to hold a valid driver's license and remain insurable under the college's automotive liability policy for the duration of the program.

A specified set of tools is required upon entry. The tool list can be found on the program website.

Admission requirements:

1. Complete general LC State admission requirements
2. Submit college placement exam scores
3. Schedule shop consultation with program faculty

Entrance requirements for the Automotive Technology program include:

- A valid driver's license with no DUI conviction within the past year.
- ALEKS score of 14 or higher in Math and Writing Placement Exam of 2 or equivalent college placement exams.
- Physical well-being, good manual dexterity, and the strength to lift heavy objects are necessary.

The automotive program has limited space, and a waitlist is utilized if the program is full. Duration on the waitlist is one semester. If students do not move into program classes after one semester on the waitlist, they need to reschedule their shop consultation.

Upon completion of the Automotive Technology program, the student will have basic skills to:

- Service and repair all systems of the automobile.
- Use specialized tools and equipment.
- Understand electronics as it is applied to the automotive industry.
- Function in a businesslike manner applicable to the automotive repair industry.
- Be subject to and pass a National Automotive Student Skills Standard Assessment test.

Upon completion of the program, students must pass all parts of the ASE certification tests in order to graduate.

Advanced Technical Certificate Requirements

Code	Title	Credits
Take all of the following:		
AUTMC-100	(G1) SAFETY AND GENERAL AUTOMOTIVE MAINTENANCE AND REPAIR	6.00
AUTMC-102	(A6) ELECTRICAL/ELECTRONIC SYSTEMS	6.00
AUTMC-200	(A5) BRAKES (A7) HEATING, VENTILATION, AND AIR CONDITIONING	6.00
AUTMC-212	(A8) ENGINE PERFORMANCE	6.00
Select an additional 24 credits from the following:		24.00
AUTMC-103	(A3) MANUAL DRIVE TRAIN AND AXLES	
AUTMC-105	(A1) ENGINE REPAIR	
AUTMC-115	(A4) STEERING AND SUSPENSION	
AUTMC-209	(A2) AUTOMATIC TRANSMISSION AND TRANSAXLE	
AUTMC-225	(L1) ADVANCED ENGINE PERFORMANCE	
AUTMC-250	(A9) LIGHT VEHICLE DIESEL ENGINES	
AUTMC-260	(L3) LIGHT DUTY HYBRID / ELECTRIC VEHICLES	

AUTMC-270	(C1) AUTOMOBILE SERVICE CONSULTANT	
Complete 4 credits from the following:		4.00
AUTMC-294	INTERNSHIP IN AUTO MECHANICS TECHNOLOGY	
Complete 3 credits from the following:		3.00
AUTMC-227	(P2) PARTS SPECIALIST	
GNBPT-103	APPLIED ALGEBRA	
MTHPT-137	MATH FOR TECHNOLOGY	
Total Credits		**55.00**