AUTO MECHANICS TECHNOLOGY AAS

The Automotive Technology Associate of Applied Science (AAS) degree 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 AAS degree seeking students in 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 Auto Mechanics 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.

General Education Requirements

Code	Title	Credits
Written Communication		
ENGL-101	WRITING AND RHETORIC I	3.00
Oral Communication		
Select one of the following:		3.00
COMM-101	FUNDAMENTALS OF ORAL COMMUNICATION	
COMM-203	SMALL GROUP COMMUNICATION	
COMM-204	PUBLIC SPEAKING	
Mathematical Ways of Knowing		
Select one of the following (MTHPT-137 recommended):		3.00-5.00
MATH-123	MATH IN MODERN SOCIETY	
MATH-130	FINITE MATHEMATICS	
MATH-140	ALGEBRAIC REASONING AND PROBLEM-SOLVING	
MATH-143	PRECALCULUS I: ALGEBRA	

MATH-147	PRECALCULUS	
MATH-153	STATISTICAL REASONING	
MATH-160	BRIEF CALCULUS	
MATH-170	CALCULUS I	
MATH-254	STATISTICAL METHODS	
MATH-257	MATHEMATICS FOR ELEMENTARY TEACHERS II	
MTHPT-130	FINITE MATHEMATICS	
MTHPT-137	MATH FOR TECHNOLOGY	
MTHPT-153	STATISTICAL REASONING	
Social & Behavioral Ways of Knowing		
Select one of the following:		3.00
ANTH-102	CULTURAL ANTHROPOLOGY (*)	
ANTH-120	WORLD PREHISTORY (*)	
ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES (*)	
ECON-201	PRINCIPLES OF MACROECONOMICS	
ECON-202	PRINCIPLES OF MICROECONOMICS	
GEOG-102	INTRODUCTION TO GEOGRAPHY (*)	
HIST-101	WORLD HISTORY I (*)	
HIST-102	WORLD HISTORY II (*)	
HIST-111	UNITED STATES HISTORY I (*)	
HIST-112	UNITED STATES HISTORY II (*)	
HRPT-184	DIVERSITY IN ORGANIZATIONS (*)	
or SS-184	DIVERSITY IN ORGANIZATIONS	
HRPT-185	HUMAN RELATIONS IN ORGANIZATIONS	
or SS-185	HUMAN RELATIONS IN ORGANIZATIONS	
POLS-101	AMERICAN NATIONAL GOVERNMENT	
POLS-237	INTERNATIONAL POLITICS	
POLS-285	COMPARATIVE GOVERNMENT (*)	
PSYC-101	INTRODUCTION TO GENERAL PSYCHOLOGY	
PSYC-205	LIFESPAN DEVELOPMENTAL PSYCHOLOGY	
SOC-101	INTRODUCTION TO SOCIOLOGY (*)	
SOC-102	SOCIAL PROBLEMS	
Global Perspectives		
Select one of the following:		3.00
Courses above designated with an asterisk (*) are eligible to fulfill the Global Perspectives requirement. Please note that an asterisked course may not be used to satisfy more than one core requirement.		
ANTH-360	RACE AND ETHNICITY	
COMM-345	INTERCULTURAL COMMUNICATION	
ENGL-258	INTERNATIONAL LITERATURE	
ENGL-260	NATIVE AMERICAN LITERATURE	
ENGL-474	NATIVE AMERICAN WRITTEN LITERATURE	
ID-300C	ETHICS AND IDENTITY	
KIN-220	SOCIAL-CULTURAL ASPECTS OF SPORTS	
NP-101	NEZ PERCE LANGUAGE AND CULTURE	
NP-102	NEZ PERCE LANGUAGE AND HISTORY	
SPAN-101	ELEMENTARY SPANISH I	
SPAN-102	ELEMENTARY SPANISH II	
SPAN-201	INTERMEDIATE SPANISH I	
SPAN-202	INTERMEDIATE SPANISH II	
Total Credits		**15.00-17.00**

Program 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-103	(A3) MANUAL DRIVE TRAIN AND AXLES	6.00
AUTMC-105	(A1) ENGINE REPAIR	6.00
AUTMC-115	(A4) STEERING AND SUSPENSION	6.00
AUTMC-200	(A5) BRAKES (A7) HEATING, VENTILATION, AND AIR CONDITIONING	6.00
AUTMC-209	(A2) AUTOMATIC TRANSMISSION AND TRANSAXLE	6.00
AUTMC-212	(A8) ENGINE PERFORMANCE	6.00
Total Credits		**48.00**

Sequential Plan of Study

Course	Title	Credits
First Year		
Fall		
AUTMC-100	(G1) SAFETY AND GENERAL AUTOMOTIVE MAINTENANCE AND REPAIR	6.00
AUTMC-102	(A6) ELECTRICAL/ELECTRONIC SYSTEMS	6.00
CORE	Mathematical Ways of Knowing	4.00
	Credits	**16.00**
Spring		
AUTMC-200	(A5) BRAKES (A7) HEATING, VENTILATION, AND AIR CONDITIONING	6.00
AUTMC-212	(A8) ENGINE PERFORMANCE	6.00
ENGL-101	WRITING AND RHETORIC I	3.00
	Credits	**15.00**
Second Year		
Fall		
AUTMC-105	(A1) ENGINE REPAIR	6.00
AUTMC-209	(A2) AUTOMATIC TRANSMISSION AND TRANSAXLE	6.00
CORE	Oral Communication	3.00
CORE	Social & Behavioral Ways of Knowing	3.00
	Credits	**18.00**
Spring		
AUTMC-103	(A3) MANUAL DRIVE TRAIN AND AXLES	6.00
AUTMC-115	(A4) STEERING AND SUSPENSION	6.00
CORE	Additional General Education Course	3.00
	Credits	**15.00**
	Total Credits	**64.00**

Graduates from Auto Mechanics Technology programs go on to obtain careers in a variety of fields:

- Auto Mechanic
- Front-End technicians
- Transmission Technicians
- Automotive Master Mechanics