

# AUTO MECHANICS TECHNOLOGY AAS

The Auto Mechanics Technology Program is National Automotive Technician Education Foundation (NATEF) certified. This program develops skills for servicing and repairing all systems of the automobile. Students are taught to use specialized tools and equipment found in automotive shops, and receive instruction in automotive theory, related instruction, and practical shop experience. Auto service technicians understand the sophisticated technology behind each vehicle, and stay current as new technologies emerge. They diagnose, adjust, repair or overhaul all types of vehicles.

Core instruction for all mechanics programs is provided during the first year. During the second year, students receive in-depth instruction in more complex systems. Students entering with prior training from high school, military, or industry can challenge portions of the training program by examination and/or performance testing. Students must achieve competencies in course work before moving to the next instructional area. Shop experience is combined with related theory. A specified set of tools is required upon entry. The tool list can be found on the program website.

All students will be subject to a Driver's License Validation check for insurance purposes, and must hold a valid driver's license while enrolled in the program. If a student loses their Driver's License or can not be insured while enrolled in the program, continuation in the program will be reviewed by the instructors on a case by case basis until the end of the semester.

Advanced on-the-job training for the student can be obtained through internship placement. A program coordinator works with the employer in establishing training goals and work experience. The program can generally be completed in two years.

## Enrollment Requirements

- Enrollment priority is on a first-come first-serve basis as determined by the student's faculty advising date.
- Aleks score in Math of 14 or higher, Writing Placement Exam of 2 or higher, or qualify for MTHPT-103 and ENGL-101.
- The prospective students must have a current valid Driver's License and have had no DUI's in the past 12 months. If you have any questions regarding your driver's license, please contact the Technical & Industrial Division Office prior to submitting your application to LC State.
- Physical well-being, good manual dexterity, and the strength to lift heavy objects are necessary.

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 a National Automotive Student Skills Standard Assessment test and must pass.

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
<b>Written Communication</b>		
ENGL-101	WRITING AND RHETORIC I	3.00
<b>Oral Communication</b>		
Select one of the following:		3.00
COMM-101	FUNDAMENTALS OF ORAL COMMUNICATION	
COMM-203	SMALL GROUP COMMUNICATION	
COMM-204	PUBLIC SPEAKING	
<b>Mathematical Ways of Knowing</b>		
MTHPT-137	MATH FOR TECHNOLOGY	4.00
<b>Social &amp; Behavioral Ways of Knowing</b>		
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
HRPT-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
SS-184	DIVERSITY IN ORGANIZATIONS
SS-185	HUMAN RELATIONS IN ORGANIZATIONS

**Additional General Education Core**

Select one of the following: 3.00-5.00

ANTH-360	RACE AND ETHNICITY
ART-100	INTRODUCTION TO ART
BIOF-100	INTRODUCTION TO BIOINFORMATICS
BIOL-100	CONCEPTS OF BIOLOGY
BIOL-120	PLANTS AND PEOPLE
BIOL-123	BIOLOGY IN FILM
BIOL-175	HUMAN BIOLOGY
BIOL-227	HUMAN ANATOMY AND PHYSIOLOGY I
CHEM-100	CONCEPTS OF CHEMISTRY
CHEM-105	GENERAL, ORGANIC AND BIOCHEMISTRY
CHEM-111	PRINCIPLES OF CHEMISTRY I
CITPT-108	INTRODUCTION TO COMPUTER SCIENCE
COMM-345	INTERCULTURAL COMMUNICATION
CS-108	INTRODUCTION TO COMPUTER SCIENCE
ENGL-175	LITERATURE AND IDEAS
ENGL-257	WORLD CLASSICS
ENGL-258	INTERNATIONAL LITERATURE
ENGL-260	NATIVE AMERICAN LITERATURE
ENGL-261	MYTHOLOGIES
ENGL-474	NATIVE AMERICAN WRITTEN LITERATURE
FSCI-101	INTRODUCTION TO FORENSIC SCIENCE
GEOL-101	PHYSICAL GEOLOGY
GEOL-120	INTRODUCTION TO EARTH SYSTEMS
GIS-271	GEOGRAPHIC INFORMATION SYSTEMS
HUM-101	THE ART AND HISTORY OF THE MOTION PICTURE
HUM-150	INTRODUCTION TO THE ARTS
ID-240	INTEGRATED SCIENCE II
ID-300C	ETHICS AND IDENTITY
ID-301A	HELLS CANYON INSTITUTE
KIN-220	SOCIAL-CULTURAL ASPECTS OF SPORTS
MUS-101	SURVEY OF MUSIC
MUS-102	MUSIC IN AMERICA
MUS-150	WORLD MUSIC
MUS-151	HISTORY OF MUSICAL THEATER
MUS-152	HISTORY OF JAZZ AND POPULAR MUSIC STYLES
NP-101	NEZ PERCE LANGUAGE AND CULTURE
NP-102	NEZ PERCE LANGUAGE AND HISTORY

NS-140	INTEGRATED SCIENCE I
NS-150	INTRODUCTION TO NATURAL SCIENCES
NS-174	NATURAL SCIENCE FOR ELEMENTARY EDUCATOR
PHYS-111	GENERAL PHYSICS I
or PHYS-112	GENERAL PHYSICS II
PHYS-171	PHYS SCIENCES FOR ELEMENTARY EDUCATORS
PHYS-205	DESCRIPTIVE ASTRONOMY
PHYS-211	PHYSICS FOR SCIENTISTS AND ENGINEERS I
SPAN-101	ELEMENTARY SPANISH I
SPAN-102	ELEMENTARY SPANISH II
SPAN-201	INTERMEDIATE SPANISH I
SPAN-202	INTERMEDIATE SPANISH II
SS-184	DIVERSITY IN ORGANIZATIONS
SS-185	HUMAN RELATIONS IN ORGANIZATIONS
THEA-101	SURVEY OF THE THEATER

**Total Credits** 16.00-18.00

## Program Requirements

Code	Title	Credits
<b>Technical Core</b>		
AUTMC-200	HVAC AND ACCESSORIES	4.00
AUTMC-209	AUTOMATIC TRANSMISSION REPAIR/DIAGNOSIS	6.00
AUTMC-212	AUTOMOTIVE TUNE-UP AND DRIVABILITY	6.00
AUTMC-225	ADVANCED COMPUTERIZED FUEL SYSTEMS	6.00
GENMC-100	BASIC AUTOMOTIVE SYSTEMS	2.00
GENMC-102	ELECTRICAL (or GENMC-102A and GENMC-102B)	6.00
GENMC-103	POWER TRAINS LECTURE AND LAB	6.00
GENMC-105	ENGINES LECTURE AND LAB (or GENMC-105A and GENMC-105B)	6.00
GENMC-115	CHASSIS, SUSPENSION, AND BRAKES LEC/LAB	6.00
GENMC-126	SAFETY	2.00
<b>Total Credits</b>		<b>50.00</b>

## Sequential Plan of Study

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
AUTMC-200	HVAC AND ACCESSORIES	4.00
ENGL-101	WRITING AND RHETORIC I	3.00
GENMC-100	BASIC AUTOMOTIVE SYSTEMS	2.00
GENMC-102 or GENMC-102A <i>and</i> GENMC-102B	ELECTRICAL or BASIC ELECTRICAL <i>and</i> ADVANCED ELECTRICAL	6.00
GENMC-126	SAFETY	2.00
<b>Credits</b>		<b>17.00</b>
<b>Spring</b>		
AUTMC-209	AUTOMATIC TRANSMISSION REPAIR/DIAGNOSIS	6.00
CORE	Oral Communication	3.00
GENMC-103	POWER TRAINS LECTURE AND LAB	6.00
MTHPT-137	MATH FOR TECHNOLOGY	4.00
<b>Credits</b>		<b>19.00</b>

**Second Year****Fall**

CORE	Social & Behavioral Ways of Knowing	3.00
GENMC-105 or GENMC-105A <i>and</i> GENMC-105B	ENGINES LECTURE AND LAB or BASIC ENGINES <i>and</i> ADVANCED ENGINES	6.00
GENMC-115	CHASSIS, SUSPENSION, AND BRAKES LEC/LAB	6.00
<b>Credits</b>		<b>15.00</b>

**Spring**

AUTMC-212	AUTOMOTIVE TUNE-UP AND DRIVABILITY	6.00
AUTMC-225	ADVANCED COMPUTERIZED FUEL SYSTEMS	6.00
CORE	Additional General Education Course	3.00
<b>Credits</b>		<b>15.00</b>
<b>Total Credits</b>		<b>66.00</b>

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