

AUTOMOTIVE AND RELATED TECHNOLOGY



Department: **Advanced Transportation & Manufacturing**
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Award Title	Award Type	Grad. Plan	Required Course Units	Major Elective Units	Total Major Units
Automotive and Related Technology	A.S.	Plan B	36	-	36
Automotive and Related Technology	C		36	-	36
Automotive and Related Technology: Tune-up	C		18	-	18
Automotive and Related Technology: Transmission Repair	C		18	-	18

At least **60 degree applicable units** (36 total major units and Plan B units) are required to earn an Associate degree.

For additional related degrees and certificates, refer to programs under Automotive Collision Repair, Diesel and Related Technologies, and Motorcycle Repair Mechanics.

AUTOMOTIVE AND RELATED TECHNOLOGY

Associate in Science Degree

Major Units: 36

Requirements for the Associate in Science degree in Automotive and Related Technology may be met by completing **36 units** of Required Courses with a "C" or better along with general education courses meeting Plan B graduation requirements. Information on the Plan B requirements may be found in the catalog under Graduation/Transfer Requirements.

Students who complete this degree will be able to perform jobs as a diagnostics, to troubleshoot and repair problems occurring in automotive anti-lock braking systems (ABS), electrical/electronic systems, engine performance, drivability, suspension and steering, automatic and manual transmissions, transaxles, engine repair, heating and air conditioning.

Students should take the 6 basic courses during Semester I and Semester II:

PROGRAM OVERVIEW

Los Angeles' long-time infatuation with the motorcar has made it a leading center in automotive design. Employment opportunities continue to thrive, and the demand for trained automotive technicians in the field continues to increase. The Automotive and Related Technology program trains students to work as professionals in this field, offering instruction in maintenance, diagnosis and overhaul procedures of electrical and fuel injection systems.

By fulfilling the program requirements, students will have gained the skills necessary to maintain, repair, and diagnose electrical, fuel injection systems, and overhaul procedures, as well as basic shop practices needed to meet industry standards.

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree/Certificate program, students are able to:

- Diagnose and repair various types of vehicles using specialty shop tools and diagnostic equipment.
- Perform vehicle repairs using manufacturer technical programs while demonstrating proficiency in adhering to all applicable shop safety regulations.
- Ability to write mechanical repair estimates in accordance to the latest industry standards.

SEMESTER I & II		UNITS	completed	Semester/Yr
AUTORTK 113	Drive Train Components Principles & Practices	3	<input type="checkbox"/>	_____
AUTORTK 114	Steering, Suspension, Brakes, Principles & Practices	3	<input type="checkbox"/>	_____
AUTORTK 121	Basic Engine Theory, Inspection & Repair	3	<input type="checkbox"/>	_____
AUTORTK 122	Electrical/Electronic Systems, Theory, Inspection, and Repairs	3	<input type="checkbox"/>	_____
AUTORTK 123	Fuel Systems and Emissions	3	<input type="checkbox"/>	_____
AUTORTK 135	Computer Control and Fuel injection	3	<input type="checkbox"/>	_____
SEMESTER III		UNITS		
AUTORTK 100	Heating and Air Conditioning Theory, Inspection, and Repair	3	<input type="checkbox"/>	_____
AUTORTK 130	Automotive Theory and Repair I - Section A	3	<input type="checkbox"/>	_____
AUTORTK 131	Automotive Theory and Repair II - Section B	3	<input type="checkbox"/>	_____
SEMESTER IV		UNITS		
AUTORTK 140	Automotive Theory and Repair III - Section A	3	<input type="checkbox"/>	_____
AUTORTK 141	Automotive Theory and Repair IV- Section B	3	<input type="checkbox"/>	_____
AUTORTK 142	Automotive Theory and Repair V - Section C	3	<input type="checkbox"/>	_____

NOTE: Students are required to provide basic hand tools, Transportation Technology uniform and personal safety equipment.

AUTOMOTIVE AND RELATED TECHNOLOGY

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Certificate of Achievement

Major Units: 36

A Certificate of Achievement in Automotive and Related Technology may be earned by completing 36 units of Required Courses listed for the Associates degree in Automotive and Related Technology with a "C" or better in each course.

AUTOMOTIVE AND RELATED TECHNOLOGY: TUNE-UP

Certificate of Achievement

Major Units: 18

A Certificate of Achievement in Automotive and Related Technology: Tune-Up may be earned by completing 18 units of Required Courses with a "C" or better in each course.

REQUIRED COURSES

		UNITS	completed	Semester/Yr
AUTORTK 100	Heating and Air Conditioning Theory, Inspection, and Repair	3	<input type="checkbox"/>	_____
AUTORTK 121	Basic Engine Theory, Inspection & Repair	3	<input type="checkbox"/>	_____
AUTORTK 122	Electrical/Electronic Systems, Theory, Inspection, and Repairs	3	<input type="checkbox"/>	_____
AUTORTK 123	Fuel Systems and Emissions	3	<input type="checkbox"/>	_____
AUTORTK 131	Automotive Theory and Repair II - Section B	3	<input type="checkbox"/>	_____
AUTORTK 135	Computer Control and Fuel Injection	3	<input type="checkbox"/>	_____

AUTOMOTIVE AND RELATED TECHNOLOGY: TRANSMISSION REPAIR

Certificate of Achievement

Major Units: 18

A Certificate of Achievement in Automotive and Related Technology: Transmission Repair may be earned by completing 18 units of Required Courses with a "C" or better in each course.

REQUIRED COURSES

		UNITS	completed	Semester/Yr
AUTORTK 100	Heating and Air Conditioning Theory, Inspection, and Repair	3	<input type="checkbox"/>	_____
AUTORTK 113	Drive Train Components Principles & Practices	3	<input type="checkbox"/>	_____
AUTORTK 114	Steering, Suspension, Brakes, Principles & Practices	3	<input type="checkbox"/>	_____
AUTORTK 121	Basic Engine Theory, Inspection & Repair	3	<input type="checkbox"/>	_____
AUTORTK 122	Electrical/Electronic Systems, Theory, Inspection, and Repairs	3	<input type="checkbox"/>	_____
AUTORTK 123	Fuel Systems and Emissions	3	<input type="checkbox"/>	_____

USEFUL LINKS

LATTC Catalog

<http://college.lattc.edu/catalog/>

LATTC Financial Aid Office

<http://college.lattc.edu/financialaid/>

LATTC Counseling Department

<http://college.lattc.edu/counseling/>

Graduation Plan A

<http://college.lattc.edu/catalog>

Graduation Plan B

<http://college.lattc.edu/catalog>

Advanced Transportation & Manufacturing Department

<http://college.lattc.edu/transportation>

You can enroll in these classes by logging on to the Student Information System at <http://college.lattc.edu/sic/sis/>

For additional information consult a LATTC college counselor.