

**Associate in Applied Science (AAS)**

# Automotive Technology

Modern automobiles are complex machines requiring service technicians who are highly skilled and knowledgeable about mechanical, electrical, and electronic systems. The Automotive Technology program provides a strong combination of classroom theory and hands-on practice, with courses based on competencies established by the National Automotive Technician Education Foundation (NATEF). The LCC Automotive Technology program is certified by NATEF, a branch of the National Institute for Automotive Service Excellence (ASE).

## Degree Requirements

- **Communications:**  
5 credits – ENGL 110 Industrial Communications recommended
- **Quantitative/Symbolic Reasoning Skills:**  
5 credits – MATH 106 Industrial Mathematics recommended
- **Human Relations / Social Science / Diversity:**  
5 credits – BUS 144 Management of Human Relations:DIV meets all three of these requirements and is recommended.
- **Natural Sciences:**  
5 credits – DHET 240 Fluid Power/Electrical Theory & Design OR TECH 100 Advanced Principles of Technology OR MFG 130 Materials Science OR choose from the Distribution List.
- **Electives:**  
1 – 9 credits. The following is a list of suggested courses: ACCT 101 (5 cr), BUS& 101 (5 cr), CS 110 (3 cr), WELD 125 (1 – 6 cr), WELD 132 (1 – 10 cr), WELD 241 (2-10 cr)

## Program Requirements

AMTC 100	Essentials of Mechanics	5
AMTC 104	Automotive Electrical Systems	15
AMTC 105	Vehicle Climate Control	5
AMTC 114	Automotive Chassis	15
AMTC 124	Automotive Engines	15
AMTC 206	Fuels and Emissions	15
AMTC 207	Computer Engine Controls	15
AMTC 214	Automotive Drivetrains	15
MFG 100	Foundational Skills for the Trades	3
MFG 105	Industrial Safety	3
HLTH 105	First Aid, CPR and Bloodborne Pathogens	1

Diversity and Distribution Lists are available in the Lower Columbia College Academic Catalog and at [lowercolumbia.edu/catalog](http://lowercolumbia.edu/catalog).

*Total credits required to earn this degree: 128-136 with a cumulative grade point average (GPA) of at least 2.0 in the program requirements.*

## Students completing this program should acquire the following skills and abilities:

- Communicate professionally in writing and speaking as appropriate to an industrial technology work environment (GS).
- Apply objective, valid methods of inquiry and problem solving to draw rational, ethical, and coherent conclusions (GS).
- Apply mathematical information to perform tasks in industrial technology (GS).
- Interact effectively with individuals and groups. (GS).

- Display work appropriate behavior including positive attitude, timeliness and teamwork.
- Apply knowledge of computer programs to create professional, academic, or business documents following current industry standards.
- Apply industry standard safety and hazardous material handling guidelines.
- Analyze and repair automotive systems including electrical, engines, heating, air conditioning, transmissions drivetrain, suspension, wheels, tires and brakes.
- Demonstrate competency in fluid services of automotive systems.
- Analyze automotive vehicles to diagnose cause of concern.
- Service and repair automotive engines including fuel, ignition, and computer systems.
- Locate information using a variety of automotive service information resources.

**Revised May 2019 (effective Summer 2019)**

**Planner**

The distribution lists are in the LCC Catalog. If you are online, click on the links below:

**Diversity Course List**

**Distribution List**

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Entry Quarter		
✓	Courses	Crs
	MFG 100 (A)	3
	MATH 106 (A)	5
	MFG 105 (A)	3
	HLTH 105 (A)	1
<b>Total:</b>		<b>12</b>

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter		
✓	Courses	Crs	✓	Courses	Crs	✓	Courses	Crs	✓	Courses	Crs
	AMTC 104 (F)	15		AMTC 114 (W)	15		AMTC 124 (Sp)	15		TECH 100 (Sp,S)	5
				AMTC 100 (W,S)	5		ENGL 110 (A)	5		BUS 144 (A)	5
										Electives	2
<b>Total:</b>		<b>15</b>	<b>Total:</b>		<b>20</b>	<b>Total:</b>		<b>20</b>	<b>Total:</b>		<b>12</b>



**Notes:**

Program planning is based on information available at the time of preparation. It is the student's responsibility to meet with their LCC advisor and with an advisor at the college to which they plan to transfer for specific requirements. Consult the LCC catalog for LCC graduation requirements.

Legend:

- A - Course usually offered all quarters.
- F - Course usually offered Fall Quarter.
- W - Course usually offered Winter Quarter.
- Sp - Course usually offered Spring Quarter.
- S - Course usually offered Summer Quarter.

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