

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
- **Quantitative/Symbolic Reasoning Skills:**
5 credits – MATH 106 Industrial Mathematics
- **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 154 (1 – 6 cr), WELD 155 (1 – 10 cr), WELD 221 (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.

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:

- Demonstrate competency in diagnosing electronic and drivability problems.
- Demonstrate competency in diagnosing brake and antilock brake problems.
- Demonstrate competency in diagnosing fuel delivery and fuel injection problems.
- Demonstrate competency in using Mitchell on Demand and Motor All Data computer information systems.

Revised July 2018 (effective Fall 2018)

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
	Total:	12

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
	Total:	15		Total:	20		Total:	20		Total:	12

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter		
√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	√	Courses	Crs
	AMTC 214 (F, Sp)	15		AMTC 206 (W)	15		AMTC 207 (Sp)	15		Electives	0-7
							AMTC 105 (Sp)	5			
	Total:	15		Total:	15		Total:	20		Total:	0-7

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.