AUTOMOTIVE TECHNOLOGY: CP

Certificate of Proficiency | 43 credit hours minimum

Area of Interest: Advanced Manufacturing, Industrial Occupations, and Transportation

Program Website (https://stlcc.edu/programs-academics/pathways/a-m-i-o-t/automotive-technology/)

Academic Advising (https://stlcc.edu/admissions/advising/)

Program Description:

Automotive Technology Certificate of Proficiency is a comprehensive certificate that focuses on comprehensive automotive training that will prepare students for employment in the automotive service and repair industry. Students are trained in the eight Automotive Service Excellence (ASE) areas of specialization.   Instruction for each of the ASE areas is supported through instructor-led presentations and demonstrations and is reinforced with guided hands-on lab activities. Students will be administered a student-specific ASE test at the end of the program to prepare them for future ASE tests.

Locations. This program is offered in its entirety at Forest Park.

Related Programs. The Automotive Technology Department offers an associate and certificates in the following areas:

> **Automotive Service, Certificate of Specialization (http://catalog.stlcc.edu/programs/automotive-technology-certificate-specialization/)**
>
> **Automotive Technology, Associate in Applied Science (http://catalog.stlcc.edu/programs/automotive-technology-aas/)**
>
> **Automotive Vehicle Inspection and Light Maintenance, Certificate of Specialization (http://catalog.stlcc.edu/programs/automotive-vehicle-inspection-light-maintenance-certificate-specialization/)**

Cost of Attendance. For more information on cost of attendance visit **MoSCORES (https://scorecard.mo.gov/Search/)**.

Program Career and Salary Information. Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: **https://scorecard.mo.gov/scorecard/ (https://www.google.com/url?q=https://scorecard.mo.gov/scorecard/ &sa=D&ust=1555536894857000&usg=AFQjCNG1xf3E_i2lO96zEytILO-s5xaJCQ)**. Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, most recent cohorts for wage and completion data are six years prior to the current academic year. Time to complete a program of study varies depending on the number of credit hours students earn per semester.

Interested in this program? Start the enrollment process by visiting the **Apply to STLCC (https://www.stlcc.edu/admissions/apply-to-stlcc/)** page.

At the completion of the program, students are expected to:

1. identify manual driveline components.
2. inspect manual driveline components for wear or damage.
3. service automatic transmission fluid and filter.
4. interpret automatic transmission sensor data.
5. identify HVAC components.
6. explain the flow of refrigeration in an automobile.
7. test vehicle sub-systems and components to determine root cause.
8. diagnose automotive related customer concerns.
9. replace faulty components.
10. perform the duties of a parts manager.
11. perform the duties of a service manager.

Missouri Civics Examination. Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. **Information on who is eligible for a waiver can be found on the STLCC website (https://stlcc.edu/programs-academics/ missouri-civics-exam.aspx)**.

Code	Title	Credit Hours
Program Requirements		
AUT 101	Automotive Fundamentals and Service Information	3
AUT 103	Automotive Vehicle Inspection and Light Maintenance	3
AUT 105	Automotive Maintenance and Service	3
AUT 107	Automotive Steering and Suspension Service	3
AUT 110	Automotive Electrical Principles	3
AUT 112	Automotive Brake Systems Service and Diagnosis	3
AUT 114	Automotive Engine Repair and Diagnosis	3
AUT 116	Automotive Powertrain Controls	3
AUT 203	Automotive Manual Drivetrain	3
AUT 210	Automotive Transmissions and Transaxles	3
AUT 212	Automotive Heating, Ventilation, and Air Conditioning	3
AUT 200	Automotive Fieldwork Operations	5
AUT 200	Automotive Fieldwork Operations	5
Total Credit Hours		**43**

Academic Plan

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PLEASE NOTE: If you originally enrolled at STLCC prior to Fall 2025, you may need to view an **archived catalog (http://catalog.stlcc.edu/archived-catalogs/)** for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
AUT 101	Automotive Fundamentals and Service Information	3	Reading Proficiency	Exploratory Course, Gateway Course, Critical Course
AUT 103	Automotive Vehicle Inspection and Light Maintenance	3	Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency	
AUT 105	Automotive Maintenance and Service	3	Concurrent or prior enrollment in AUT 101 and AUT 103 with minimum grades of "C", and Reading Proficiency	
AUT 107	Automotive Steering and Suspension Service	3	Concurrent or prior enrollment in AUT 101, AUT 103, AUT 105 with minimum grades of "C", and Reading Proficiency	Apply for Automotive Vehicle Inspection and Light Maintenance, Certificate of Specialization.
	Credit Hours	**12**		
Spring				
AUT 110	Automotive Electrical Principles	3	Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency	
AUT 112	Automotive Brake Systems Service and Diagnosis	3	Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency	
AUT 114	Automotive Engine Repair and Diagnosis	3	Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency	
AUT 116	Automotive Powertrain Controls	3	Concurrent or prior enrollment in AUT 101 with a minimum grade of "C" and Reading Proficiency	Apply for Automotive Service, Certificate of Specialization.
	Credit Hours	**12**		
Second Year				
Fall				
AUT 200	Automotive Fieldwork Operations	5	AUT 107, AUT 110, AUT 112, AUT 114, AUT 116 with minimum grades of "C" and Reading Proficiency	
AUT 203	Automotive Manual Drivetrain	3	AUT 101 with a minimum grade of "C" and Reading Proficiency	
	Credit Hours	**8**		
Spring				
AUT 200	Automotive Fieldwork Operations	5	AUT 107, AUT 110, AUT 112, AUT 114, AUT 116 with minimum grades of "C" and Reading Proficiency	Apply for graduation.
AUT 210	Automotive Transmissions and Transaxles	3	AUT 101 with a minimum grade of "C" and Reading Proficiency	
AUT 212	Automotive Heating, Ventilation, and Air Conditioning	3	AUT 110 with a minimum grade of "C" and Reading Proficiency	
	Credit Hours	**11**		
	Total Credit Hours	**43**		

Critical Courses: Critical courses are most important to a student's declared major and most strongly predict later success in the major. A critical course requires a minimal grade to progress to higher-level courses.

Exploratory Courses: Exploratory courses are first-semester courses that introduce the program and career field.

Gateway Courses: Gateway courses are courses in many career pathways that must be completed before progression in higher-level courses. These may be the same as critical and/or exploratory courses.

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.