

# DIESEL TECHNOLOGY: CS

Certificate of Specialization | 18 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/diesel-technology/>)

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

## Program Description:

The Diesel Technology Certificate of Specialization program is designed to prepare graduates for careers as medium/heavy truck repair technicians. Graduates will be qualified for positions requiring diagnosis and repair of the following truck systems: suspension and steering, brakes, electrical and electronics, and preventive maintenance. Graduates will be competent for entry-level positions in new vehicle dealerships, truck and bus leasing companies, street and highway departments, transit maintenance facilities, fleet carriers, and miscellaneous other vehicle-based operations.

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

**Related Programs.** The Diesel Technology Department offers an associate and a certificate in the following areas:

**Diesel Technology, Associate in Applied Science**  
(<http://catalog.stlcc.edu/programs/diesel-technology/>)

**Diesel Technology, Certificate of Proficiency** (<http://catalog.stlcc.edu/programs/diesel-technology-certificate-proficiency/>)

**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](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. diagnose, service, and repair truck steering and suspension systems.
2. diagnose, service, and repair truck electrical and electronic systems.
3. diagnose, service, and repair truck braking systems.
4. perform truck preventive maintenance.

Code	Title	Credit Hours
<b>Program Requirements</b>		
DIE 100	Introduction to Diesel Technology	3
DIE 102	Medium/Heavy Truck Suspension and Steering	3
DIE 103	Medium/Heavy Truck Electricity	3
DIE 106	Medium/Heavy Truck Brakes	3
DIE 107	Medium/Heavy Truck Electronics	3
DIE 201	Preventive Maintenance Inspection	3
<b>Total Credit Hours</b>		<b>18</b>

## Academic Plan

**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
<b>First Year</b>				
<b>Fall</b>				
DIE 100	Introduction to Diesel Technology	3	MTH 020 with a grade of "C" or better or satisfactory score on placement test and Reading Proficiency	Exploratory Course, Gateway Course, Critical Course. First 8 weeks
DIE 103	Medium/Heavy Truck Electricity	3	Reading Proficiency	First 4 weeks
DIE 107	Medium/Heavy Truck Electronics	3	DIE 103 with a minimum grade of "C" and Reading Proficiency	Second 4 weeks
DIE 201	Preventive Maintenance Inspection	3	DIE 100 with a minimum grade of "C" and Reading Proficiency	Third 4 weeks
DIE 102	Medium/Heavy Truck Suspension and Steering	3	DIE 100 with a minimum grade of "C" and Reading Proficiency	Fourth 4 weeks
<b>Credit Hours</b>		<b>15</b>		

Spring				
DIE 106	Medium/Heavy Truck Brakes	3	DIE 100 with a minimum grade of "C" and Reading Proficiency	First 4 weeks; Apply for graduation.
	<b>Credit Hours</b>	<b>3</b>		
	<b>Total Credit Hours</b>	<b>18</b>		

**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.

**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.

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

\*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.

## Part-Time Academic Plan

**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
<b>First Year</b>				
<b>Fall</b>				
DIE 100	Introduction to Diesel Technology	3	MTH 020 with a grade of "C" or better or satisfactory score on placement test and Reading Proficiency	Exploratory Course, Gateway Course, Critical Course
DIE 103	Medium/Heavy Truck Electricity	3	Reading Proficiency	
DIE 107	Medium/Heavy Truck Electronics	3	DIE 103 with a minimum grade of "C" and Reading Proficiency	
	<b>Credit Hours</b>	<b>9</b>		
<b>Spring</b>				
DIE 106	Medium/Heavy Truck Brakes	3	DIE 100 with a minimum grade of "C" and Reading Proficiency	Apply for graduation.
DIE 201	Preventive Maintenance Inspection	3	DIE 100 with a minimum grade of "C" and Reading Proficiency	
DIE 102	Medium/Heavy Truck Suspension and Steering	3	DIE 100 with a minimum grade of "C" and Reading Proficiency	
	<b>Credit Hours</b>	<b>9</b>		
	<b>Total Credit Hours</b>	<b>18</b>		

**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.

**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.

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

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