

## Automotive Technology (Maintenance and Light Repair) Certificate

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Students in the Automotive Technology (Maintenance and Light Repair) Certificate will learn to perform basic repairs and maintenance on automotive systems such as electrical systems, brakes, alignments, suspension, steering, engine repair, and an introduction to engine performance. This certificate also provides credit towards completing the comprehensive Automotive Technology (Automobile Service Technician) Certificate (<https://catalog.jccc.edu/degreecertificates/automotivetechology/automotive-technology-repair-certificate/>) and/or the Automotive Technology Associate of Applied Science (<https://catalog.jccc.edu/degreecertificates/automotivetechology/automotive-tech-aas/>) degree.

(Major Code 6740; CIP Code 47.0604)

Automotive Technology Program web page (<http://www.jccc.edu/academics/credit/automotive-technology/>)

### Program Learning Outcomes

Johnson County Community College (JCCC) is committed to offering high-quality affordable programs that focus on developing knowledge and skills conducive to life-long learning. Both the General Education Student Learning Outcomes (<https://www.jccc.edu/about/leadership-governance/administration/institutional-effectiveness-branch/outcomes-assessment/learning-outcomes.html>) and Institutional Learning Outcomes (<https://www.jccc.edu/about/leadership-governance/administration/institutional-effectiveness-branch/outcomes-assessment/institutional-learning-outcomes.html>) convey JCCC's approach to programmatic outcomes. Additionally, students who successfully complete the Automotive Technology program from JCCC will be able to:

- Apply safety procedures and use personal protective equipment in an automotive shop environment.
- Diagnose and repair brake systems, including hydraulic systems, drum brakes, and disc brakes.
- Perform wheel alignments and steering/suspension system repairs, including diagnosing and correcting alignment issues and replacing suspension components.
- Diagnose and repair basic electrical systems, including starting, charging, and lighting systems.
- Perform basic engine repairs, including inspecting, diagnosing, and replacing engine components.
- Demonstrate effective workplace communication skills, including verbal and written communication, teamwork, and problem-solving.

### Certificate Requirements

#### First Semester

Code	Title	Hours
AUTO 114	Introduction to Automotive Practices	4
AUTO 129	Brakes I*	3
AUTO 131	Brakes II*	1
AUTO 156	Electrical I*	3
COMS 155	Workplace Skills	1
<b>Total Hours</b>		<b>12</b>

#### Second Semester

Code	Title	Hours
AUTO 150	Steering and Suspension I*	3
AUTO 151	Alignment Practicum*	1
AUTO 155	Automotive Engine Repair*	3
AUTO 161	Engine Performance I*	3
AUTO 162	Electrical II*	3
<b>Total Hours</b>		<b>13</b>



# 2025-26 Catalog

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**Total Program Hours: 25**

\* This course has registration requirements.