

# Automotive Technology - COP



2023-24

## Program map for Automotive Technology Certificate of Proficiency (COP) in Maintenance and Light Repair

The Maintenance and Light Repair (MLR) program is designed to train students in the skills needed to perform tasks, such as, Express lube, routine maintenance, and light automotive repair. The curriculum covers theory and lab training in all areas of automotive repair and students will perform inspections to determine whether the component is serviceable or needs replaced.

### See also

- [Degree Requirements for Manufacturing, Trades and Transportation programs \( lowercolumbia.edu/programs/trades \)](https://www.lowercolumbia.edu/programs/trades)
- [Course descriptions in LCC Catalog \( lowercolumbia.edu/publications/catalog/courses \)](https://www.lowercolumbia.edu/publications/catalog/courses)
- [Distribution lists in LCC Catalog \( lowercolumbia.edu/publications/catalog/distribution-lists \)](https://www.lowercolumbia.edu/publications/catalog/distribution-lists)

( [lowercolumbia.edu/program-maps/trades/](https://www.lowercolumbia.edu/program-maps/trades/) ) **Important:** Many course sequences only begin in fall quarter. Check with your program advisor.

## By Quarter Overview

### First Quarter

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- COLL 101: College Success 101 (2 credits)
- HLTH 105: First Aid, CPR and Bloodborne Pathogens (1 credit)
- MFG 105: Industrial Safety (3 credits)
- MATH 106: Industrial Mathematics (5 credits)
  - *MATH 079 or TECH 079 with a C or better or instructor permission\**
- BUS 144: Management of Human Relations: DIV (5 credits)

*\*Pre- and/or co-requisite(s)*

### Second Quarter

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- AMTC 104: Automotive Electrical Systems (15 credits)
- ENGL 110: Industrial Communication (5 credits)

### **Third Quarter**

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- AMTC 114: Automotive Chassis (15 credits)
- AMTC 100: Essentials of Mechanics (5 credits)

### **Fourth Quarter**

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- AMTC 124: Automotive Engines (15 credits)

## **Detailed Class Sequence**

### **1. College Success 101**

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COLL 101 (2 credits)

### **2. First Aid, CPR and Bloodborne Pathogens**

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HLTH 105 (1 credit)

### **3. Industrial Safety**

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MFG 105 (3 credits)

### **4. Industrial Mathematics**

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*MATH 106 (5 credits)*

*Pre- and/or co-requisite(s): MATH 079 or TECH 079*

### **5. Management of Human Relations: DIV**

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BUS 144 (5 credits)

### **6. Automotive Electrical Systems**

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AMTC 104 (15 credits)

### **7. Industrial Communication**

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ENGL 110 (5 credits)

### **8. Automotive Chassis**

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AMTC 114 (15 credits)

## 9. Essentials of Mechanics

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AMTC 100 (5 credits)

## 10. Automotive Engines

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AMTC 124 (15 credits)



## Program Maps for Manufacturing, Trades and Transportation ( [lowercolumbia.edu/program-maps/trades](http://lowercolumbia.edu/program-maps/trades) )

- **Advanced Manufacturing Technology - AAS (Engineering Technician and Multicraft Trades Option) ( [lowercolumbia.edu/program-maps/trades/AAS-Advanced-Manufacturing-Technology-Engineering-Tech-Multicraft-Trades](http://lowercolumbia.edu/program-maps/trades/AAS-Advanced-Manufacturing-Technology-Engineering-Tech-Multicraft-Trades) )**
- **Advanced Manufacturing Technology - AAS (Multicraft Trades and Production Technician Option) ( [lowercolumbia.edu/program-maps/trades/AAS-Advanced-Manufacturing-Technology-Multicraft-Trades-Production-Tech](http://lowercolumbia.edu/program-maps/trades/AAS-Advanced-Manufacturing-Technology-Multicraft-Trades-Production-Tech) )**
- **Advanced Manufacturing Technology - AAS (Production Technician and Engineering Technician Option) ( [lowercolumbia.edu/program-maps/trades/AAS-Advanced-Manufacturing-Technology-Production-Tech-Engineering-Tech](http://lowercolumbia.edu/program-maps/trades/AAS-Advanced-Manufacturing-Technology-Production-Tech-Engineering-Tech) )**
- **Advanced Manufacturing for BAS-OLTM - AAS-T (Transfer Option) ( [lowercolumbia.edu/program-maps/trades/AAS-T-Advanced-Manufacturing-for-BAS-OLTM](http://lowercolumbia.edu/program-maps/trades/AAS-T-Advanced-Manufacturing-for-BAS-OLTM) )**
- **Automotive Technology - AAS ( [lowercolumbia.edu/program-maps/trades/AAS-Automotive-Technology](http://lowercolumbia.edu/program-maps/trades/AAS-Automotive-Technology) )**
- **Automotive Technology - AAS-T (BAS-OLTM Option) ( [lowercolumbia.edu/program-maps/trades/AAS-Automotive-Technology-to-BAS-OLTM](http://lowercolumbia.edu/program-maps/trades/AAS-Automotive-Technology-to-BAS-OLTM) )**
- **Automotive Technology - COP ( [lowercolumbia.edu/program-maps/trades/COP-Automotive-Technology-Maintenance-Light-Repair](http://lowercolumbia.edu/program-maps/trades/COP-Automotive-Technology-Maintenance-Light-Repair) )**
- **Commercial Truck Driving - COC ( [lowercolumbia.edu/program-maps/trades/COC-Commercial-Truck-Driving](http://lowercolumbia.edu/program-maps/trades/COC-Commercial-Truck-Driving) )**
- **Computer Numerical Control - COP ( [lowercolumbia.edu/program-maps/trades/COP-Computer-Numerical-Control](http://lowercolumbia.edu/program-maps/trades/COP-Computer-Numerical-Control) )**
- **Diesel/Heavy Equipment Preventative Maintenance - COP ( [lowercolumbia.edu/program-maps/trades/COP-Diesel-Heavy-Equipment-Preventative-Maintenance](http://lowercolumbia.edu/program-maps/trades/COP-Diesel-Heavy-Equipment-Preventative-Maintenance) )**
- **Diesel/Heavy Equipment Technology - AAS ( [lowercolumbia.edu/program-maps/trades/AAS-Diesel-Heavy-Equipment](http://lowercolumbia.edu/program-maps/trades/AAS-Diesel-Heavy-Equipment) )**
- **Diesel/Heavy Equipment Technology - AAS-T (BAS-OLTM Option) ( [lowercolumbia.edu/program-maps/trades/AAS-Diesel-Heavy-Equipment-to-BAS-OLTM](http://lowercolumbia.edu/program-maps/trades/AAS-Diesel-Heavy-Equipment-to-BAS-OLTM) )**
- **Engineering Technician - COP ( [lowercolumbia.edu/program-maps/trades/COP-Engineering-Technician](http://lowercolumbia.edu/program-maps/trades/COP-Engineering-Technician) )**
- **Machine Trades - AAS ( [lowercolumbia.edu/program-maps/trades/AAS-Machine-Trades](http://lowercolumbia.edu/program-maps/trades/AAS-Machine-Trades) )**
- **Machine Trades - AAS-T (BAS-OLTM Option) ( [lowercolumbia.edu/program-maps/trades/AAS-Machine-Trades-to-BAS-OLTM](http://lowercolumbia.edu/program-maps/trades/AAS-Machine-Trades-to-BAS-OLTM) )**

- **Machinist - COP ( [lowercolumbia.edu/program-maps/trades/COP-Machinist](http://lowercolumbia.edu/program-maps/trades/COP-Machinist) )**
- **Multicraft Trades - COP ( [lowercolumbia.edu/program-maps/trades/COP-Multicraft-Trades](http://lowercolumbia.edu/program-maps/trades/COP-Multicraft-Trades) )**
- **Production Technician - COP ( [lowercolumbia.edu/program-maps/trades/COP-Production-Technician](http://lowercolumbia.edu/program-maps/trades/COP-Production-Technician) )**
- **Welding - AAS ( [lowercolumbia.edu/program-maps/trades/AAS-Welding](http://lowercolumbia.edu/program-maps/trades/AAS-Welding) )**
- **Welding - COP ( [lowercolumbia.edu/program-maps/trades/COP-Welding](http://lowercolumbia.edu/program-maps/trades/COP-Welding) )**
- **Welding for BAS-OLTM - AAS-T (Transfer Option) ( [lowercolumbia.edu/program-maps/trades/AAS-T-Welding-for-BAS-OLTM](http://lowercolumbia.edu/program-maps/trades/AAS-T-Welding-for-BAS-OLTM) )**