

# Program map for Automotive Technology Associate in Applied Science - Transfer (AAS-T) for LCC BAS-OLTM



2025-26

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 ASE Education Foundation. The LCC Automotive Technology program is certified by ASE Education Foundation, a branch of the National Institute for Automotive Service Excellence (ASE).

[View this program in the LCC Catalog \(lowercolumbia.edu/publications/catalog/programs/Trades-AAS-T-Automotive-Technology-to-BAS-OLTM\)](https://lowercolumbia.edu/publications/catalog/programs/Trades-AAS-T-Automotive-Technology-to-BAS-OLTM)

## See also

- [Degree Requirements for Manufacturing, Trades and Transportation programs \(lowercolumbia.edu/publications/catalog/programs/Trades-AAS-T-Automotive-Technology-to-BAS-OLTM\)](https://lowercolumbia.edu/publications/catalog/programs/Trades-AAS-T-Automotive-Technology-to-BAS-OLTM)
- [Course descriptions in the LCC Catalog \(lowercolumbia.edu/publications/catalog/courses\)](https://lowercolumbia.edu/publications/catalog/courses)
- [Distribution lists in the LCC Catalog \(lowercolumbia.edu/publications/catalog/distribution-lists\)](https://lowercolumbia.edu/publications/catalog/distribution-lists)

**Important:** Many course sequences only begin in fall quarter. Check with your program advisor.

## By Quarter Overview

### First Quarter (Summer)

- COLL 101: College Success 101 (2 credits)
- MFG 105: Industrial Safety (3 credits)
- HLTH 105: First Aid, CPR and Bloodborne Pathogens (1 credit)
- MATH& 107: Math in Society (5 credits)
  - *MATH 097/098 with a grade of C or better\**

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

## Second Quarter

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- AMTC 104: Automotive Electrical Systems (15 credits)
- ENGL& 101: English Composition I (5 credits)
  - College level reading and writing skills or completion of ENGL 099 (was ENGL 100) or TECH 105 with a grade of C or better\*

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

## 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)
- COLL 289: Employment Portfolio Seminar (1 credit)

## Fifth Quarter

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- TECH 100 : Advanced Principles of Technology (5 credits)
  - *One year of high school principles of technology (certificate from instructor required), or TECH 090, or MATH 106 or higher\**
- BUS 144: Management of Human Relations: DIV (5 credits)
- AMTC 288: Cooperative Education (2 credits)

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

## Sixth Quarter

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- AMTC 214: Automotive Drivetrains (15 credits)
  - *AMTC 104 or Instructor Permission\**

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

## Seventh Quarter

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- AMTC 206: Fuels and Emissions (15 credits)
  - *AMTC 104 or Instructor Permission\**

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

## Eighth Quarter

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- AMTC 207: Computer Engine Controls (15 credits)
  - *AMTC 104 or Instructor Permission\**

- AMTC 105: Vehicle Climate Control (5 credits)
  - *AMTC 104 or DHET 104 or Instructor Permission\**

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

## Detailed Class Sequence

### 1. College Success 101

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COLL 101 (2 credits)

### 2. Industrial Safety

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MFG 105 (3 credits)

### 3. First Aid, CPR and Bloodborne Pathogens

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HLTH 105 (1 credit)

### 4. Math in Society

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MATH& 107 (5 credits)

*Pre- and/or co-requisite(s): MATH 097/098 with a C or better*

### 5. Automotive Electrical Systems

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AMTC 104 (15 credits)

### 6. English Composition I

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ENGL& 101 (5 credits)

*Pre- and/or co-requisite(s): College level reading and writing skills or completion of ENGL 099 (was ENGL 100) or TECH 105 with a grade of C or better*

### 7. Automotive Chassis

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AMTC 114 (15 credits)

### 8. Essentials of Mechanics

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AMTC 100 (5 credits)

### 9. Automotive Engines

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AMTC 124 (15 credits)

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## 10. Employment Portfolio Seminar

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COLL 289 (1 credit)

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## 11. Advanced Principles of Technology

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TECH 100 (5 credits)

*Pre- and/or co-requisite(s): One year of high school principles of technology (certificate from instructor required), or TECH 090, or MATH 106 or higher*

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## 12. Management of Human Relations: DIV

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BUS 144 (5 credits)

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## 13. Cooperative Education

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AMTC 288 (2 credits)

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## 14. Automotive Drivetrains

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AMTC 214 (15 credits)

*Pre- and/or co-requisite(s): AMTC 104 or Instructor Permission*

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## 15. Fuels and Emissions

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AMTC 206 (15 credits)

*Pre- and/or co-requisite(s): AMTC 104 or Instructor Permission*

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## 16. Computer Engine Controls

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AMTC 207 (15 credits)

*Pre- and/or co-requisite(s): AMTC 104 or Instructor Permission*

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## 17. Vehicle Climate Control

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AMTC 105 (5 credits)

*Pre- and/or co-requisite(s): AMTC 104 or Instructor Permission*