

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

2024-25



[Return to Manufacturing, Trades and Transportation Program Maps \(lowercolumbia.edu/program-maps/trades\)](https://www.lowercolumbia.edu/program-maps/trades)

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 \(lowercolumbia.edu/publications/catalog/programs/Trades-AA-ST-Automotive-Technology-to-BAS-OLTM\)](https://www.lowercolumbia.edu/publications/catalog/programs/Trades-AA-ST-Automotive-Technology-to-BAS-OLTM)

See also

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

2 Program

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

- 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

- 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

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

Fourth Quarter

- AMTC 124: Automotive Engines (15 credits)
- COLL 289: Employment Portfolio Seminar (1 credit)

Fifth Quarter

- 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

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

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

Seventh Quarter

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

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

2 Program

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

Eighth Quarter

- 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

COLL 101 (2 credits)

2. Industrial Safety

MFG 105 (3 credits)

3. First Aid, CPR and Bloodborne Pathogens

HLTH 105 (1 credit)

4. Math in Society

MATH& 107 (5 credits)

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

5. Automotive Electrical Systems

AMTC 104 (15 credits)

6. English Composition I

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

AMTC 114 (15 credits)

8. Essentials of Mechanics

AMTC 100 (5 credits)

9. Automotive Engines

AMTC 124 (15 credits)

10. Employment Portfolio Seminar

COLL 289 (1 credit)

11. Advanced Principles of Technology

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

12. Management of Human Relations: DIV

BUS 144 (5 credits)

13. Cooperative Education

AMTC 288 (2 credits)

14. Automotive Drivetrains

AMTC 214 (15 credits)

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

15. Fuels and Emissions

AMTC 206 (15 credits)

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

16. Computer Engine Controls

AMTC 207 (15 credits)

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

17. Vehicle Climate Control

AMTC 105 (5 credits)

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