

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



2026-27

Prepare for a job as a machinist, millwright, and tool and die maker, or another occupation related to manufacturing through LCC's Machine Trades program. Graduates may work as advanced apprentice machinists, machine operators, or programmers.

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

## See also

- [Degree Requirements for Manufacturing, Trades and Transportation programs \(lowercolumbia.edu/publications/catalog/programs/Trades-AAS-T-Machine-Trades-to-BAS-OLTM\)](https://www.lowercolumbia.edu/publications/catalog/programs/Trades-AAS-T-Machine-Trades-to-BAS-OLTM)
- [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

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- MASP 111: Machine Shop I (2-10 credits)
- COLL 101: College Success 101 (2 credits)
- MFG 115: Manufacturing Process (5 credits)

### Second Quarter

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- MASP 112: Machine Shop II (2-10 credits)
  - 10 credits of MASP 107 and/or MASP 111\*
- BLPT 150: Machinist Blueprint Reading (5 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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- MASP 113: Machine Shop III (2-10 credits)
  - *10 credits of MASP 112\**
- MASP 204: CNC Machining Center Fundamentals (3 credits)
- MATH& 107: Math in Society (5 credits)
  - *C or better in MATH 97 or MATH 98\**

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

## Fourth Quarter

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- MASP 221: CNC Milling (2-10 credits)
  - *MASP 204\**
- MASP 205: CNC Turning Center Fundamentals (3 credits)
- MFG 105: Industrial Safety (3 credits)

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

## Fifth Quarter

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- MASP 222: CNC Turning (2-10 credits)
  - *MASP 205\**
- Natural Science with lab from the Distribution List (5 credits)
- HLTH 105: First Aid, CPR and Bloodborne Pathogens (1 credit)

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

## Sixth Quarter

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- MASP 223: Advanced CNC Processing (2-10 credits)
  - *MASP 221 or MASP 222\**
- MFG 230: Computer Integrated Manufacturing (4 credits)
  - *MASP 221 or MASP 222\**
- BUS 144: Management of Human Relations: DIV (5 credits)

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

## Seventh Quarter

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- SOC& 101: Introduction to Sociology:DIV OR ANTH& 206: Cultural Anthropology:DIV (5 credits)
- Humanities from the Distribution List (5 credits)
- CS 110: Introduction to Microcomputer Applications (3 credits)

- *Ability to use a keyboard\**
- COLL 289: Employment Portfolio Seminar (1 credit)

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

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## Detailed Class Sequence

### 1. Machine Shop I

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MASP 111 (2-10 credits)

### 2. College Success 101

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COLL 101 (2 credits)

### 3. Manufacturing Process

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MFG 115 (5 credits)

### 4. Machine Shop II

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MASP 112 (2-10 credits)

*Pre- and/or co-requisite(s): 10 credits of MASP 107 and/or MASP 111*

### 5. Machinist Blueprint Reading

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BLPT 150 (5 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. Machine Shop III

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MASP 113 (2-10 credits)

*Pre- and/or co-requisite(s): 10 credits of MASP 112*

### 8. CNC Machining Center Fundamentals

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MASP 204 (3 credits)

### 9. Math in Society

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MATH& 107 (5 credits)

*Pre- and/or co-requisite(s): C or better in MATH 97 or MATH 98*

## **10. CNC Milling**

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MASP 221 (2-10 credits)

*Pre- and co-requisite(s): MASP 204*

## **11. CNC Turning Center Fundamentals**

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MASP 205 (3 credits)

## **12. Industrial Safety**

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MFG 105 (3 credits)

## **13. CNC Turning**

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MASP 222 (2-10 credits)

*Pre- and co-requisite(s): MASP 205*

## **14. Natural Science with a lab**

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Choose from distribution list (5 credits)

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

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HLTH 105 (1 credit)

## **16. Advanced CNC Processing**

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MASP 223 (2-10 credits)

*Pre- and/or co-requisite(s): MASP 221 or MASP 222*

## **17. Computer Integrated Manufacturing**

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MFG 230 (4 credits)

*Pre- and/or co-requisite(s): MASP 221 or MASP 222*

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

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BUS 144 (5 credits)

## **19. Introduction to Sociology or Cultural Anthropology**

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SOC& 101 or ANTH& 206 (5 credits)

## **20. Humanities course**

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Choose from the distribution list (5 credits)

## **21. Introduction to Microcomputer Application**

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CS 110

*Pre- and/or co-requisite(s): ability to use a keyboard*

## **22. Employment Portfolio Seminar**

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COLL 289 (1 credit)