

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



2025-26

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://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://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://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

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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

- 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

- 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

- 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

- 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

- 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)*

Detailed Class Sequence

1. Machine Shop I

MASP 111 (2-10 credits)

2. College Success 101

COLL 101 (2 credits)

3. Manufacturing Process

MFG 115 (5 credits)

4. Machine Shop II

MASP 112 (2-10 credits)

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

5. Machinist Blueprint Reading

BLPT 150 (5 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. Machine Shop III

MASP 113 (2-10 credits)

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

8. CNC Machining Center Fundamentals

MASP 204 (3 credits)

9. Math in Society

MATH& 107 (5 credits)

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

10. CNC Milling

MASP 221 (2-10 credits)

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

11. CNC Turning Center Fundamentals

MASP 205 (3 credits)

12. Industrial Safety

MFG 105 (3 credits)

13. CNC Turning

MASP 222 (2-10 credits)

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

14. Natural Science with a lab

Choose from distribution list (5 credits)

15. First Aid, CPR and Bloodborne Pathogens

HLTH 105 (1 credit)

16. Advanced CNC Processing

MASP 223 (2-10 credits)

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

17. Computer Integrated Manufacturing

MFG 230 (4 credits)

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

18. Management of Human Relations: DIV

BUS 144 (5 credits)

19. Introduction to Sociology or Cultural Anthropology

SOC& 101 or ANTH& 206 (5 credits)

20. Humanities course

Choose from the distribution list (5 credits)

21. Introduction to Microcomputer Application

CS 110

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

22. Employment Portfolio Seminar

COLL 289 (1 credit)