

Machine Trades - AAS-T (BAS-OLTM Option)



2023-24

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

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.

See also: (lowercolumbia.edu/programs/trades)

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

Please note that many course sequences only begin in fall quarter. Please check with your program advisor for more information.

Please review both the "By Quarter Overview" and "Detailed Class Sequence" tabs below.

By Quarter Overview

First Quarter

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

Second Quarter

- 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)



Program Maps for Manufacturing, Trades and Transportation (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)
- Advanced Manufacturing Technology - AAS (Multicraft Trades and Production Technician Option) (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)
- Advanced Manufacturing for BAS-OLTM - AAS-T (Transfer Option) (lowercolumbia.edu/program-maps/trades/AAS-T-Advanced-Manufacturing-for-BAS-OLTM)
- Automotive Technology - AAS (lowercolumbia.edu/program-maps/trades/AAS-Automotive-Technology)
- Automotive Technology - AAS-T (BAS-OLTM Option) (lowercolumbia.edu/program-maps/trades/AAS-T-Automotive-Technology-to-BAS-OLTM)

- **Automotive Technology - COP** (lowercolumbia.edu/program-maps/trades/COP-Automotive-Technology-Maintenance-Light-Repair)
- **Commercial Truck Driving - COC** (lowercolumbia.edu/program-maps/trades/COC-Commercial-Truck-Driving)
- **Computer Numerical Control - COP** (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)
- **Diesel/Heavy Equipment Technology - AAS** (lowercolumbia.edu/program-maps/trades/AAS-Diesel-Heavy-Equipment)
- **Diesel/Heavy Equipment Technology - AAS-T (BAS-OLTM Option)** (lowercolumbia.edu/program-maps/trades/AAS-T-Diesel-Heavy-Equipment-to-BAS-OLTM)
- **Engineering Technician - COP** (lowercolumbia.edu/program-maps/trades/COP-Engineering-Technician)
- **Machine Trades - AAS** (lowercolumbia.edu/program-maps/trades/AAS-Machine-Trades)
- **Machine Trades - AAS-T (BAS-OLTM Option)** (lowercolumbia.edu/program-maps/trades/AAS-T-Machine-Trades-to-BAS-OLTM)
- **Machinist - COP** (lowercolumbia.edu/program-maps/trades/COP-Machinist)
- **Multicraft Trades - COP** (lowercolumbia.edu/program-maps/trades/COP-Multicraft-Trades)
- **Production Technician - COP** (lowercolumbia.edu/program-maps/trades/COP-Production-Technician)
- **Welding - AAS** (lowercolumbia.edu/program-maps/trades/AAS-Welding)
- **Welding - COP** (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)