

Tool and Die/Moldmaking (BP) Associate in Applied Science Degree

Semester Sequence - Full-Time

Offered at Brooklyn Park Only

First Semester

MACH1056	Blueprint Reading I	3
MACH1100	Introduction to Machining Technology	3
MACH1105	Drilling and Sawing Processes	2
MACH1110	Turning Technology I	3
MACH1125	Milling Technology I	3
MATH2050	Applications of Quantitative Reasoning or	3
MATH2200	College Algebra	4

Total Credits 17

Second Semester

MACH1120	Turning Technology II	3
MACH1130	Milling Technology II	3
MACH1135	Precision Grinding	2
MACH1140	Introduction to CNC Technical Studies Electives	3 4

Total Credits 15

Summer Semester

ENGL2121	Writing and Research or	4
ENGL2125	Technical Writing General Education Electives	3 3

Total Credits 6

Third Semester

MACH2400	CNC Setup and Operation	3
MACH2406	CNC Programming	3
MACH2410	CAD/CAM	3
MACH2420	Blueprint Reading II for Machinists Technical Studies Electives General Education Electives	2 3 3

Total Credits 17

Fourth Semester

MACH2450	Fundamentals of EDM	2
MACH2455	Die/Mold Design	3
MACH2460	Die Construction	3
MACH2465	Mold Construction	3
MACH2500	Introduction to Swiss-Style Machining	3
PHIL2100	Critical Thinking for College Success or	3
PHYS2001	Introductory Physics	3

Total Credits 17

Technical Studies Electives

Recommended:

MACH1145	Machinists Reference Materials	1
MACH1900	Specialized Lab	1 - 4
MACH2415	CNC Milling	3
MACH2425	Geometry/Trigonometry for Machinists	2
MACH2430	CNC Machining Centers	3
MACH2435	CNC Turning Centers	3
MACH2450	Fundamentals of EDM	2
MACH2600	Introduction to Quality Assurance	3
MACH2610	Inspection Processes	3
MACH2615	Inspection Equipment and Techniques	3
MACH2620	Quality Systems	3
MACH2625	Computer Analysis of Manufacturing Data	2
METS1000	Computers in Manufacturing	3
ENGC1050	Additive Manufacturing	3
ENGC1250	SOLIDWORKS I	4

Choose a Total of: 7 Credits

General Education Electives

A complete list of MnTC courses and Goal Areas that can be used to meet General Education requirements can be found at www.hennepintech.edu. The same course cannot satisfy more than one MnTC Goal Area requirement.

Hennepin Technical College’s 2000-level general education courses meet the guidelines of the Minnesota Transfer Curriculum (MnTC).

Choose a Total of: 6 Credits

Graduation (72 Credits)

Semester listings reflect the recommended sequence. Due to circumstances beyond our control, the information herein is subject to change without notice.

4/14/2021 : BP 4305 / EP