

## Tool and Die/Moldmaking (BP) Diploma

### Semester Sequence - Part-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

#### Total Credits 8

#### Second Semester

MACH1110	Turning Technology I	3
MACH1125	Milling Technology I	3
MACH1135	Precision Grinding	2

#### Total Credits 8

#### Summer Semester

COMM2050	Interpersonal Communication or	3
ENGL1026	Writing for Careers	3

#### Total Credits 3

#### Third Semester

MACH1120	Turning Technology II	3
MACH1130	Milling Technology II	3
MATH1500	Beginning Algebra	3
MATH1650	or Mathematical Literacy	4

#### Total Credits 9

#### Fourth Semester

MACH1140	Introduction to CNC	3
MACH2410	CAD/CAM	3
MACH2425	Geometry/Trigonometry for Machinists	2

#### Total Credits 8

#### Summer Semester

Technical Studies Electives	3
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#### Total Credits 3

#### Fifth Semester

MACH2400	CNC Setup and Operation	3
MACH2406	CNC Programming	3
MACH2450	Fundamentals of EDM	2

#### Total Credits 8

## Sixth Semester

MACH2455	Die/Mold Design	3
MACH2460	Die Construction	3
MACH2465	Mold Construction	3

## Total Credits 9

## Seventh Semester

MACH2420	Blueprint Reading II for Machinists	2
MACH2500	Introduction to Swiss-Style Machining	3
	Technical Studies Electives	3

## Total Credits 8

## Technical Studies Electives

Recommended:

MACH1145	Machinists Reference Materials	1
MACH1900	Specialized Lab	1 - 4
MACH2415	CNC Milling	3
MACH2430	CNC Machining Centers	3
MACH2435	CNC Turning Centers	3
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: 6 Credits

## Graduation (64 Credits)

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

4/19/2021 : BP 4307 / EP