

## Computer Numerical Control (CNC) Technician (BP) Associate in Applied Science Degree

### 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

MATH1150	Applications of Quantitative Reasoning	3
	or	
MATH1400	College Algebra	4
	General Education Electives	3

#### Total Credits 6

#### Third Semester

MACH1120	Turning Technology II	3
MACH1130	Milling Technology II	3
MACH1140	Introduction to CNC	3

#### Total Credits 9

#### Fourth Semester

MACH2410	CAD/CAM	3
MACH2420	Blueprint Reading II for Machinists	2
MACH2425	Geometry/Trigonometry for Machinists	2
	Technical Studies Electives	4

#### Total Credits 9

#### Summer Semester

ENGL1070	Technical Writing	3
	or	
ENGL1100	Writing and Research	4

#### Total Credits 3

## Fifth Semester

MACH2400	CNC Setup and Operation	3
MACH2406	CNC Programming	3
	Technical Studies Electives	3

## Total Credits 9

## Sixth Semester

MACH2415	CNC Milling	3
MACH2430	CNC Machining Centers	3
MACH2435	CNC Turning Centers	3

## Total Credits 9

## Summer Semester

PHIL1100	Critical Thinking for College Success	3
	or	
PHYS1005	Introductory Physics I	3

## Total Credits 3

## Seventh Semester

MACH2440	Quality Assurance	2
MACH2500	Introduction to Swiss-Style Machining	3
	General Education Electives	3

## Total Credits 8

## Technical Studies Electives

Recommended:

MACH1145	Machinists Reference Materials	1
MACH1900	Specialized Lab	1 - 4
MACH2450	Fundamentals of EDM	2
MACH2470	Advanced 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: 7 Credits

## General Education Electives

A complete list of Minnesota Transfer Curriculum (MnTC) courses and Goal Areas that can be used to meet General Education requirements can be found at [www.hennepintech.edu](http://www.hennepintech.edu). The same course cannot satisfy more than one MnTC Goal Area requirement.

## 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.

2/3/2023 : BP 4304 / EP