

Computer Numerical Control (CNC) Technician (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 |
| MATH1150 | Applications of Quantitative Reasoning or | 3 |
| MATH1400 | 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 | 3 |
| MACH2425 | Geometry/Trigonometry for Machinists | 2 |
| | Technical Studies Electives | 4 |

Total Credits 15

Summer Semester

| | | |
|----------|-----------------------------|---|
| ENGL1070 | Technical Writing or | 3 |
| ENGL1100 | Writing and Research | 4 |
| | General Education Electives | 3 |

Total Credits 6

Third Semester

| | | |
|----------|-------------------------------------|---|
| MACH2400 | CNC Setup and Operation | 3 |
| MACH2406 | CNC Programming | 3 |
| MACH2410 | CAD/CAM | 3 |
| MACH2415 | CNC Milling | 3 |
| MACH2420 | Blueprint Reading II for Machinists | 2 |
| | General Education Electives | 3 |

Total Credits 17

Fourth Semester

| | | |
|----------|---------------------------------------|---|
| MACH2430 | CNC Machining Centers | 3 |
| MACH2435 | CNC Turning Centers | 3 |
| MACH2440 | Quality Assurance | 2 |
| MACH2500 | Introduction to Swiss-Style Machining | 3 |
| PHIL1100 | Critical Thinking for College Success | 3 |
| | or | |
| PHYS1005 | Introductory Physics I | 3 |
| | Technical Studies Electives | 3 |

Total Credits 17

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. 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