

Engineering CAD Technology (BP/EP) Diploma

Semester Sequence - Brooklyn Park

First Semester

ENGC1160	Inventor	4
ENGC2100	Basic Creo Parametric	4
MACH1056	Blueprint Reading I	3
	Technical Studies Electives	4

Total Credits 15

Second Semester

ENGC1050	Additive Manufacturing	3
ENGC1100	AutoCAD for Engineering	4
ENGC1250	SOLIDWORKS I	4
ENGC2110	Advanced Creo Parametric	4
METS1020	Industrial Manufacturing Processes	3

Total Credits 18

Third Semester

ENGC1011	Engineering Drawing	3
ENGC1041	Geometric Dimensioning and Tolerancing	3
ENGC1201	Industrial CAD Project	3
ENGC1255	SOLIDWORKS II	4
ENGC2001	Mechanical Design	3
	or	
METS2000	Engineering Design Principles	3

Total Credits 16

Fourth Semester

ENGC1021	Working Drawings	3
ENGC2011	Special Fields of Drafting	3
ENGC2075	Engineering Design Project	3
	Choose 3 credits from MnTC Goal Area 1	3
	Choose 3 credits from MnTC Goal Area 2, 3, or 4	3

Total Credits 15

Technical Studies Electives

Recommended:

ARET1200	Introduction to Robotics	2
ENGC1060	Design for Additive Manufacturing	3
ENGC1070	Additive Manufacturing Finishing Techniques	3
ENGC1130	AutoCAD Electrical	3
ENGC1900	Specialized Lab	1 - 4
ENGC2050	AutoCAD Upgrade Training	1
ENGC2200	Engineering CAD Technology Internship	3 - 4
FLPW1101	Fluid Power Technology I	3

MACH1205	Machine Tool Technology	3
MACH2425	Geometry/Trigonometry for Machinists	2
METS2100	Statics and Strength of Materials	3

Choose a Total of: 10 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.

2/26/2024 : BP 4106 / EP 4107