Engineering CAD Technology (BP/EP) Associate in Applied Science Degree

Semester Sequence - Eden Prairie

First Semester

ENGC1100	AutoCAD for Engineering	4
ENGC1250	SOLIDWORKS I	4
MACH1056	Blueprint Reading I	3
METS1020	Industrial Manufacturing Processes	3
MATH1150	Applications of Quantitative Reasoning	3
	or	
MATH1400	College Algebra	4

Total Credits 17

Second Semester

ENGC1011	Engineering Drawing	3
ENGC1050	Additive Manufacturing	3
	(elective)	
ENGC1160	Inventor	4
ENGC1255	SOLIDWORKS II	4
ENGC2100	Basic Creo Parametric	4

Total Credits 18

Summer Semester

ENGL1070	Technical Writing	3
	or	
ENGL1100	Writing and Research	4
PHIL1100	Critical Thinking for College Success	3
	or	
PHYS1005	Introductory Physics I	3

Total Credits 6

Third Semester

ENGC1021	Working Drawings	3
ENGC2001	Mechanical Design	3
	or	
METS2000	Engineering Design Principles	3
ENGC2011	Special Fields of Drafting	3
ENGC2075	Engineering Design Project	3
ENGC2110	Advanced Creo Parametric	4

Total Credits 16

Fourth Semester

ENGC1041	Geometric Dimensioning and Tolerancing	3
ENGC1060	Design for Additive Manufacturing	3
ENGC1201	Industrial CAD Project	3
	General Education Electives	6

Total Credits 15

Technical Studies Electives

Recommended:

ARET1200	Introduction to Robotics	2
ENGC1050	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
METS2100	Statics and Strength of Materials	3

Choose a Total of: 3 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.

Choose credits from Hennepin Technical College's Minnesota Transfer Curriculum (MnTC) general education courses.

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.

2/26/2024 : BP 4104 / EP 4105