

MECHANICAL TECHNICIAN-CNC & PRECISION MACHINING. (T173) PATHWAY

Students will graduate upon successful completion of all academic semesters and Co-Op Work Term.

Semester 1: Fall 2021 or Winter 2022 [2021-01/02]

Course Code	Course Title	Pre-Requisite	Hrs/wk
EMNG 1001	Circuit Analysis		5
EMNG 1004	Metrology		2
MENG 1002	Engineering Drawing		3
MENG 1087	Machining Fundamentals		3
MENG 1088	Occupational Health and Safety		1
GSSC 1027	Personal Finance		3
MATH 1160	Mathematics for Engineering Technology 1		3
COMM 1007*	College English		3
		Total Hours	23

*Depending on the results of your placement test, you may be required to take Foundation Level Communications: COMM 1003 (English Skills) or CESL 1003 (English Skills-ESL) before progressing to COMM 1007. Students placed in COMM 1003 or CESL 1003 will be charged extra tuition. Please visit the Assessment Centre for further information
<https://www.georgebrown.ca/assessment-centre>

Semester 2: Winter 2022 or Summer 2022 [2021-02/03]

Course Code	Course Title	Pre-Requisite	Hrs/wk
CADE 1004	Introduction to CNC	MENG 1087	4
EMNG 1003	Engineering Physics	MATH 1160	3
MATH 1171	Mathematics for Engineering Technology 2	MATH 1160	4
MENG 1026	Introduction to Mechanical CAD	MENG 1002	3
MENG 1090	Precision Machining	MENG 1087	4
MENG 2008	Pneumatic Systems		2
GSSC 1100	Small Business Plan & Operation		3
		Total Hours	23

Semester 3: Summer 2022 or Fall 2022 [2021-03/2022-01]

Course Code	Course Title	Pre-Requisite	Hrs/wk
CADE 2029	Computer Aided Manufacturing	CADE 1004	4
CADE 2030	Intermediate CNC	CADE 1004	4
DRFT 1014	Jig and Fixture Design	MENG 1026	3
EMNG 2040	Workplace Preparedness & Technical Report	COMM 1007	3

Course Code	Course Title	Pre-Requisite	Hrs/wk
MENG 2002	Advanced Precision Machining	MENG 1090	4
MENG 2052	Quality Assurance		3
GNED	General Education Elective (Select One)		3
		Total Hours	24

Semester 4: Fall 2022 or Winter 2023 [2022-01/2022-02]

Course Code	Course Title	Pre-Requisite	Hrs/wk
CADE 2013	Advanced Computer Aided Manufacturing	CADE 2029	4
CADE 2031	Advanced CNC	CADE 2030	4
DRFT 2007	Applied Industrial Project Design	DRFT 1014	3
MENG 2043	Precision Tool Fabrication	MENG 2002	4
MENG 2057	Robotics		3
MENG 2058	Co-Op Preparation		1
GNED	General Education Elective (Select One)		3
		Total Hours	22

CO-OP Work Term: Winter 2023 or Summer 2023 [2022-02/03]

Course Code	Course Title	Pre-Requisite	Hrs/wk
TCOP 1005	Work Term		varies

PATHWAY SUBJECT TO CHANGE