

ELECTROMECHANICAL ENGINEERING TECHNICIAN (T146) 2021-2022 PATHWAY

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 Spring 2022 [2021-02/03]

Course Code	Course Title	Pre-Requisite	Hrs/wk
EMNG 1003	Engineering Mechanics	MATH 1160	3
EMNG 1012	Introduction to Mechanical CAD	MENG 1002	3
EMNG 1013	Electronic Devices	EMNG 1001	4
EMNG 1015	Motors & Controls	EMNG 1001	3
EMNG 1016	Electro-Pneumatics	MATH 1160	3
MATH 1171	Mathematics for Engineering Technology 2	MATH 1160	4
GSSC 1100	Small Business Plan & Operation		3
		Total Hours	23

Semester 3: Fall 2022 [2022-01]

Course Code	Course Title	Pre-Requisite	Hrs/wk
EMNG 2001	Introduction to PLC Systems	EMNG 1015 EMNG 1016	4
EMNG 2004	Digital Electronics	EMNG 1013	3
EMNG 2006	Operations Management & Quality Control	MATH 1171	3
EMNG 2020	Sensors and Instrumentation	EMNG 1016	3
EMNG 2021	Automation Software Development		3

Course Code	Course Title	Pre-Requisite	Hrs/wk
EMNG 2033	Mechanical and Electrical CAD	EMNG 1012	3
EMNG 2045	Introduction to Machining (delivered in the 2 nd 7 weeks for 2hrs per week)	MENG 1087	1
GNED	General Education Elective (Select One)		3
		Total Hours	23

Semester 4: Winter 2023 [2022-02]

Course Code	Course Title	Pre-Requisite	Hrs/wk
EMNG 2015	Applied Project	ALL SEMESTER 1-3 COURSES	5
EMNG 2023	Intermediate Machining	EMNG 2045	3
EMNG 2034	Embedded Systems & Interfacing	EMNG 2004 EMNG 2021 EMNG 2020	3
EMNG 2040	Workplace Preparedness & Technical Writing	COMM 1007	3
EMNG 2041	Robotics	EMNG 2021 EMNG 2001	3
EMNG 3003	Network Fundamentals	EMNG 2004	3
GNED	General Education Elective (Select One)		3
		Total Hours	23

PATHWAY SUBJECT TO CHANGE