

## ELECTROMECHANICAL ENG. TECH. (T171) 2019-2020 PATHWAY

Semester 1: Fall 2019 or Winter 2020 [2019-01/02]

Course Code	Course Title	Pre-Requisite	Hrs/wk
<b>EMNG 1001</b>	Circuit Analysis		5
<b>EMNG 1004</b>	Metrology		2
<b>MENG 1002</b>	Engineering Drawing		3
<b>MENG 1027</b>	Introduction to Machining		4
<b>GSSC 1027</b>	Personal Finance		3
<b>MATH 1160</b>	Mathematics for Engineering Technology 1		3
<b>COMM 1007*</b>	College English		3
		<b>Total Hours</b>	<b>23</b>

\*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  
<http://assessment.georgebrown.ca/>

Semester 2: Winter 2020 or Spring 2020 [2019-02/03]

Course Code	Course Title	Pre-Requisite	Hrs/wk
<b>EMNG 1003</b>	Engineering Mechanics	MATH 1160	3
<b>EMNG 1012</b>	Introduction to Mechanical CAD	MENG 1002	3
<b>EMNG 1013</b>	Electronic Devices	EMNG 1001	4
<b>EMNG 1015</b>	Motors & Controls	EMNG 1001	2
<b>EMNG 1016</b>	Electro-Pneumatics		3
<b>MATH 1171</b>	Mathematics for Engineering Technology 2	MATH 1160	4
<b>GSSC 1100</b>	Small Business Plan & Operation		3
		<b>Total Hours</b>	<b>22</b>

Semester 3: Fall 2020 [2020-01]

Course Code	Course Title	Pre-Requisite	Hrs/wk
<b>EMNG 2001</b>	Introduction to PLC Systems	EMNG 1015, EMNG 1016	4
<b>EMNG 2004</b>	Digital Electronics	EMNG 1013	4
<b>EMNG 2020</b>	Sensors and Instrumentation	EMNG 1013	3
<b>EMNG 2021</b>	Automation Software Development		3
<b>MENG 2070</b>	Workplace Essentials	COMM 1007	2
<b>GNED</b>	General Education Elective (Select One)		3

Course Code	Course Title	Pre-Requisite	Hrs/wk
		<b>Total Hours</b>	<b>19</b>

Semester 4: Winter 2021 [2020-02]

Course Code	Course Title	Pre-Requisite	Hrs/wk
<b>EMNG 2022</b>	Measurement & Final Control Elements		3
<b>EMNG 2024</b>	Internet of Things for Homes and Buildings	EMNG 2004	4
<b>EMNG 2025</b>	Electrical Techniques	EMNG 1013	4
<b>EMNG 3003</b>	Network Fundamentals	EMNG 2004	3
<b>MENG 2046</b>	Sustainable Energy Technologies	EMNG 1003	2
<b>MENG 3030</b>	Technical Report Writing	COMM 1007	2
<b>GNED</b>	General Education Elective (Select One)		3
		<b>Total Hours</b>	<b>21</b>

Semester 5: Fall 2021 [2021-01]

Course Code	Course Title	Pre-Requisite	Hrs/wk
<b>EMNG 2026</b>	Applied Project 1	Sem 1-4	4
<b>EMNG 3002</b>	Building Science Fundamentals	Sem 1-4	3
<b>EMNG 3004</b>	Building Networks and Protocols	Sem 1-4	4
<b>EMNG 3006</b>	Alarm and Video Systems	Sem 1-4	4
<b>EMNG 3015</b>	Building Control Systems	Sem 1-4	4
<b>EMNG 3016</b>	Fundamentals of HVAC/R Systems	Sem 1-4	3
		<b>Total Hours</b>	<b>22</b>

Semester 6: Winter 2022 [2021-02]

Course Code	Course Title	Pre-Requisite	Hrs/wk
<b>EMNG 3011</b>	Building Management & Commissioning	Sem 1-5	4
<b>EMNG 3013</b>	Building Sub-Systems and Integration	Sem 1-5	4
<b>EMNG 3018</b>	Applied Project 2	Sem 1-5	6
<b>EMNG 3019</b>	Building Operations and Management	Sem 1-5	2
<b>EMNG 3020</b>	Blueprint Reading for Buildings	Sem 1-5	2
<b>EMNG 3021</b>	Connected Homes	Sem 1-5	4
		<b>Total Hours</b>	<b>22</b>

**\*PATHWAY SUBJECT TO CHANGE\***