

MECHANICAL ENGINEERING TECHNOLOGY (T121) 2021-2022 PATHWAY

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

RESIDENCY (In-Class) AND ONLINE STREAM

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]

RESIDENCY (In-Class) STREAM

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

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

ONLINE STREAM

Course Code	Course Title	Pre-Requisite	Hrs/wk
CADE 1024	Introduction to CNC and CAM	MENG 1087	4
EMNG 1003	Engineering Mechanics	MATH 1160	3
MENG 1026	Introduction to Mechanical CAD	MENG 1002	3
MENG 1092	Manufacturing Processes	MENG 1087	4
MENG 2008	Pneumatic Systems		2
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]

RESIDENCY (In-Class) AND ONLINE STREAM

Course Code	Course Title	Pre-Requisite	Hrs/wk
CADE 2003	Advanced Mechanical CAD	MENG 1026	3
DRFT 1014	Jig and Fixture Design	MENG 1026	3
EMNG 1013	Electronic Devices	EMNG 1001	4
MATH 2015	Calculus 1	MATH 1171	3
MENG 2010	Electro-Pneumatic Controls	MENG 2008	4
MENG 2039	Statics	EMNG 1003	3
MENG 3030	Technical Report Writing	COMM 1007	2
		Total Hours	22

Semester 4: Winter 2023 [2022-02]

RESIDENCY (In-Class) AND ONLINE STREAM

Course Code	Course Title	Pre-Requisite	Hrs/wk
MATH 3006	Calculus 2	MATH 2015	3
MENG 1019	Fluid Mechanics		3
MENG 2040	Engineering Strengths of Materials	MENG 2039	3
MENG 2047	Geometric Dimensioning and Tolerance	MENG 1026	3
MENG 2049	Product Development Engineering	MENG 1090	3
MENG 2070	Workplace Essentials	COMM 1007	2
MENG 3009	Industrial Automation: PLC Systems	MENG 2010	3

Course Code	Course Title	Pre-Requisite	Hrs/wk
GNEED	General Education Elective (Select One)		3
		Total Hours	23

Semester 5: Fall 2023 [2023-01]

RESIDENCY (In-Class) AND ONLINE STREAM

Course Code	Course Title	Pre-Requisite	Hrs/wk
EMNG 3001	Embedded Systems 1	EMNG 1013	3
MENG 3006	Thermodynamics	MENG 1019	3
MENG 3008	Capstone Project 1	MENG 2049	3
MENG 3012	Finite Element Analysis	CADE 2003 MENG 2040	3
MENG 3023	Engineering Dynamics	EMNG 1003 MATH 2015	3
MENG 3024	Machine Design 1	MENG 2039	3
MENG 3026	Engineering Materials		3
MENG 3027	Building Automation		3
		Total Hours	24

Semester 6: Winter 2024 [2023-02]

RESIDENCY (In-Class) AND ONLINE STREAM

Course Code	Course Title	Pre-Requisite	Hrs/wk
EMNG 2041	Robotics		3
EMNG 3008	Embedded Systems 2	EMNG 3001	3
EMNG 3016	Fundamentals of HVAC/R Systems	MENG 3006	3
MENG 3010	Capstone Project 2	MENG 3008	6
MENG 3025	Machine Design 2	MENG 3024	3
GNEED	General Education Elective (Select One)		3
		Total Hours	21

PATHWAY SUBJECT TO CHANGE