MODEL ROUTE

School:	School of Engineering Technology & Applied Sciences - AMAT	Program Number:		3824	
Program Title:	Electrical Engineering Technology Co-Op	**Credential:**	☐ Certificate ☐ Diploma ☐ Degree	☐ Graduate Certificate ☑ Advanced Diploma	
Delivery Mode:	☐ Non Co-Op ☑ Co-Op ☐ Fast Track	**Duration:**	☐ 2 Semesters ☐ 4 Semesters ☐ 8 Semesters	☐ 3 Semesters ☐ 6 Semesters ☑ 9 Semesters	
Intake:	**Fall 2021 & Winter 2022**				

Course Code	Course Title	Co/Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours
Semester 1	**Fall 2021 & Winter 2022**						
EET-114	Drawing Interpretation		0	3	3	14	42
EET-115	Installation Methods 1		3	0	3	14	42
EET-116	Canadian Electrical Code 1		0	2	2	14	28
EET-117	Electrical Theory 1		2	4	6	14	84
MATH-101	Mathematics 1		0	4	4	14	56
COMM-160/161	College Communications 1		0	3	3	14	42
GNED ♦	General Education Elective		0	3	3	14	42
						Total	336
Semester 2	**Winter 2022 & Summer 2022**						
EET-124 ♦	AutoCAD		2	0	2	14	28
EET-125	Drawing and Installation Methods 2	P: EET-114, EET-115	2	2	4	14	56
EET-126 ♦	Instrumentation 1	P: MATH-101	2	2	4	14	56
EET-127 ♦	Canadian Electrical Code 2	P: EET-116	0	2	2	14	28
EET-128	Electrical Theory 2	P: EET-117, MATH-101	0	4	4	14	56
EET-129	Electronics 1	P: EET-117, MATH-101	2	2	4	14	56
MATH-102	Mathematics 2	P: MATH-101	0	4	4	14	56
						Total	336
Semester 3	**Fall 2022**						
EET-123	Electronics 2	P: EET-129	2	2	4	14	56
EET-215	Introduction to Programmable Logic Controllers	P: MATH-101	3	0	3	14	42
EET-216 ♦	Drawing and Installation Methods 3	P: EET-125	2	2	4	14	56
EET-217 ♦	Electrical Theory 3	P: EET-128, MATH 102	0	3	3	14	42
COMM-170/171	College Communications 2	P: COMM-160/161	0	3	3	14	42
GNED-500 ♦	Global Citizenship: From Social Analysis to Social Action		0	3	3	14	42
MATH-285	Calculus	P: MATH-102	0	4	4	14	56
						Total	336
Semester 4	**Winter 2023**						
EET-223 ♦	Electronics 3	P: EET-123	2	2	4	14	56
EET-226	Electric Power Generation & Distribution	P: EET-217	2	2	4	14	56
EET-227	Instrumentation 2	P: EET-126, MATH-102	2	2	4	14	56
EET-228	Monitoring Systems & Networking	P: EET-215, MATH-102	2	2	4	14	56
MATH-221	Mathematics 4	P: MATH-285	0	4	4	14	56

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Intake:	Fall 2021 & Winter 2022				

Course Code	Course Title	Co/Pre-Requisite (Course Code)	Lab Hours	Lecture Hours	Total Weekly Hours	Weeks (14)	Total Hours
AMEG-212 ♦	Applied Ethics in Technology and the Environment		0	2	2	14	28
						Total	308
Semester 5	**Fall 2023**						
EET-311	Programming Languages		3	0	3	14	42
EET-312	Advance Control Systems	P: MATH-221	3	2	5	14	70
EET-313	Project Design & Management	P: EET-124, EET-223, EET-217	4	0	4	14	56
EET-314	Lighting Design & Technology	P: EET-124, EET-228	2	2	4	14	56
EET-323	Microcomputer Interfacing	P: EET-223 | C: EET-311	2	2	4	14	56
ENGL-250	Report Writing in a Technical Environment	P: COMM-170/171	0	2	2	14	28
COOP-721	Employment Preplacement	P: COMM-170/171 with minimum "C" grade; CGPA 2.5 or higher; 80% of courses from years 1 & 2 completed	0	1	1	14	14
						Total	322
Semester 3C	**Winter 2024**						
COOP-222	Co-Op Work Placement 1	P: COOP-721					
Semester 4C	**Summer 2024**						
COOP-331	Co-Op Work Placement 2	P: COOP-721					
Semester 5C	**Fall 2024**						
COOP-332	Co-Op Work Placement 3	P: COOP-721					
Semester 6	**Winter 2025**						
EET-321	Power Quality and System Analysis	P: EET-226	2	2	4	14	56
EET-322	Distributed Energy and Management Systems	P: EET-226	2	2	4	14	56
EET-324	Technology Capstone Project	P: EET-313, EET-323, ENGL-250	4	0	4	14	56
EET-325	Advance Control Wiring	P: EET-215, EET-216	2	2	4	14	56
EET-326	Signals & Communications	P: EET-228, EET-223, MATH-285	2	2	4	14	56
GNED ♦	General Education Elective		0	3	3	14	42
						Total	322
						Total Program Hours:	1960

Notes:

C = Co-Requisite; P = Pre-Requisite

Minimum Program GPA of 2.00 is required for graduation

♦ This course may be offered in one of the following modalities: Online, Hybrid, or Blended

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Signature:							
	AMAT Chair			Revised Date			