		MODEL	ROU	TE							
School:	School of Engineering Technology and Applied Science - SDRE	Program Number:		3757							
Program Title:	Energy Systems Engineering Technology - PTY	Credential:		CertificaDiploma		Graduate Certifica Advanced Diploma		Degree			
	☑ Co-Op			2 Seme	sters 🗆	3 Semesters					
Program Delivery	Fast Track Hybrid	Duration :		4 Seme	sters 🗆	6 Semesters					
Mode:	🗆 Non Co-op			□ 8 Seme		9 Semesters					
Campus:	Progress Campus										
Intake:	Fall 2022/Winter 2023										
Course Code	Course Title	Co/Pre Requisite (Course Code)	Lab Hours	Lecture Hours	Field Placement Hours	Course Delivery ODL=Online BLD=Blended HYB = Hybrid	Total Course Hrs (Lab + Lecture + Field)	Weeks (14)	Total Hours		
Semester 1		F	all 2022/	/Winter 20)23	-					
COMM-160/161	College Communications 2		0	3			3	14	42		
ESET-111	Energy, Environment and Society		0	2		ODL	2	14	28		
MATH-170	Technology Mathematics 2		0	3			3	14	42		
PHYS-100	Physics		0	3			3	14	42		
ESET-112	Electric Circuits		2				6		84		
ESET-115	Computer Aided Drafting		3	2			5		7(
				10				Total	308		
Semester 2				B/Summer	2023		2				
COMM-170/171	College Communications 2	COMM-160/161	0	3			3	14	42		
ESET-121	Fabrication and Installation	ROBO-115 or MT-151 or ESET115	3	0			3	14	42		
ESET-122	Chemistry Applications and Climate		2				5		70		
	Global Citizenship: From Social Analysis										
GNED-500	to Social Action 🔶		0	3		ODL, BLD, HYB	3	14	42		
MATH-180 *	Technology Mathematics 3	MATH-170	0	3			3	14	42		
ESET123*	Applied Statics	PHYS-100	0				4		56		
ESET-124	Electronic Devices	ROBO-112 or ESET-112	2	2			4	14	56		
Break (Summer 202	23)							Total	350		
			_								
Semester 3	Applied Ethics in Technology and the		Fal	l 2023							
AMEG212	Environment •			2		ODL	2	14	28		
ESET-211	Digital & Power Electronics	ROBO-234 or ESET-124	2				4		56		
ESET-212	Boilers & Auxiliairies	PHYS-100 or FT Code	2			НҮВ	4		56		
ESET-213 *	Renewable Energy System	ESET-111 or FT Code	2				4		56		
GNED	General Education Elective		0				3		42		
MATH-231	Differential Calculus and Analytic							1.1	- <i></i>		
ESET216	Geometry Mechanics and Materials	MATH-180 ROBO-123 OR MT-121 or ESET-123	0			ODL	3		56		
			1	2		552	5	Total	336		
Semester 4			Wint	ter 2024							
ESET-221 *	Fluid Mechanics & Dynamics	PHYS-100, MATH-170 or FT Code	1				4	14	56		
ESET-222 *	Wind and Solar Energy	ESET-213	2				4		56		
ESET-223	Power Engineering and HVAC	ESET-212	2				4		56		
ESET-225	Pneumatic/PLC	ESET-211	2				5		70		
GNED	General Education Elective		0				3		42		
MATH-232	Integral Calculus	MATH-231: Minimum C grade	0				4		56		
		J · · ·	-					Total	336		

		MODEL	ROU	IE						
School:	School of Engineering Technology and Applied Science - SDRE	Program Number:		3757						
Program Title:	Energy Systems Engineering Technology - PTY	Credential:		□ Certificate □ Graduate Certificate □ Degree □ Diploma ☑ Advanced Diploma						
Program Delivery Mode:	☑ Co-Op □ Online □ Fast Track □ Hybrid □ Non Co-op □ Online	Duration :		□ 2 Semesters □ 3 Semesters □ 4 Semesters □ 6 Semesters □ 8 Semesters ☑ 9 Semesters						
Campus:	Progress Campus									
Intake:	Fall 2022/Winter 2023									
Course Code	Course Title	Co/Pre Requisite (Course Code)	Lab Hours	Lecture Hours	Field Placement Hours	Course Delivery ODL=Online BLD=Blended HYB = Hybrid	Total Course Hrs (Lab + Lecture + Field)	Weeks (14)	Total Hours	
Break (Summer 20)24)									
Semester 5			Fal	l 2024						
ESET-312	Power Generation 1	ESET-223	2				4	14	5	
COOP-721	Employment Preplacement	COMM-170\171 minimum "C" grade, CGPA 2.5, and 80% of Year 1 and 2 courses	0				1	14	1,	
ESET-314	Motion Controls and Network	completed ESET-225	2				4	14	5	
ESET-315	Refrigeration and HVAC	ESET-223	2				4	14	5	
ESET-316	Microcontrollers	ESET-211	2				4	14	5	
ESET-317	Statistics & Energy Auditing	ESET-222	0			ODL	4	14	5	
ESET318	Thermodynamics 1	ESET-221 or MT-318	1	3		НҮВ	4	14	50	
								Total	350	
Work Term 1 (Win	iter 2025)									
COOP-222	Co-op Work Placement 1									
Work Term 2 (Sum		PROFESSIONAL								
COOP-331	Co-op Work Placement 2	TECHNOLOGY YEAR								
Work Term 3 (Fall					1					
COOP-332	Co-op Work Placement 3									
Semester 6			Win	ter 2026						
ESET-322	Power Generation 2	ESET- 312	2				4	14	50	
ESET-323	Distributed Generation and Transmission	ESET-316, ESET-317	2				4	14	5	
ESET-324	Geothermal Heat Pumps: Installation & Design	MT-309 or ESET-318	0	4		ODL	4	14	5	
			-						_	

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ESET-314

ESET-315

ESET-312, 315, 317

2

1

3

4

4

3

Total Program Hours:

Total

14

14

14

56

56

42

322

2002

C = Co-Requisite; P = Pre-Requisite

Building Automation Systems

Energy Storage and Management

Final Project

ESET-325

ESET-326

ESET-328

		MODEL	ROU	TE					
School:	School of Engineering Technology and Applied Science - SDRE	Program Number:	3757						
Program Title:	Energy Systems Engineering Technology - PTY	Credential:	CertificaDiploma		 □ Graduate Certificate □ Degree ☑ Advanced Diploma 				
Program Delivery Mode:	 ☑ Co-Op ☐ Fast Track ☐ Non Co-op ☐ Non Co-op 	Duration :	□ 2 Semesters □ 3 Semesters □ 4 Semesters □ 6 Semesters □ 8 Semesters ☑ 9 Semesters						
Campus:	Progress Campus								
Intake:	Fall 2022/Winter 2023								
Course Code	Course Title	Co/Pre Requisite (Course Code)	Lab Hours	Lecture Hours	Field Placement Hours	Course Delivery ODL=Online BLD=Blended HYB = Hybrid	Total Course Hrs (Lab + Lecture + Field)	Weeks (14)	Total Hours
	be offered in one of the following mo de required for technologist graduati		or Blenc	led)					

Signature:

Clarence Cheung School Dean/Chair

24-Mar-22

Revised Date