

MODEL ROUTE

School:	School of Engineering Technology and Applied Science - SDRE	Program Number:	3776						
Program Title:	Energy Systems Engineering Technology Fast Track	Credential:	☐ Certificate ☐ Graduate Certificate ☐ Degree ☐ Diploma ☒ Advanced Diploma						
Program Delivery Mode:	☐ Co-Op ☐ Online ☒ Fast Track ☐ Hybrid ☒ Non Co-op	Duration :	☐ 2 Semesters ☐ 3 Semesters ☒ 4 Semesters ☐ 6 Semesters ☐ 8 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 3	Fall 2022/Winter 2023								
COMM-170/171	College Communications 2		0	3			3	14	42
ESET-211	Digital & Power Electronics		2	2			4	14	56
ESET-212	Boilers & Auxiliaries		2	2			4	14	56
ESET-213 *	Renewable Energy System		2	2			4	14	56
ESET-217	Introduction to AutoCad		3	0			3	14	42
ESET-215	Electronic Devices & Digital Electronics		2	3			5	14	70
ESET-216	Mechanics and Materials		1	2		ODL	3	14	42
								Total	364
Semester 4	Winter 2023 or Summer 2023								
ESET-121	Fabrication and Installation	ROBO-115 or MT-151 or ESET217	3	0			3	14	42
ESET-221	Fluid Mechanics & Dynamics	PHYS-100, MATH-170 or FT Code	1	3			4	14	56
ESET-222 *	Wind and Solar Energy	ESET-213	2	2			4	14	56
ESET-223	Power Engineering and HVAC	ESET-212	2	2			4	14	56
ESET-225	Pneumatic/PLC	ESET-211	2	3			5	14	70
GNED-500	Global Citizenship: From Social Analysis to Social Action 		0	3		ODL, BLD, HYB	3	14	42
								Total	322
Break (Summer 2023)									
Semester 5	Fall 2023								
ESET-312	Power Generation 1	ESET-223	2	2			4	14	56
ESET-314	Motion Controls and Network	ESET-225	2	2			4	14	56
ESET-315	Refrigeration and HVAC	ESET-223	2	2			4	14	56
ESET-316	Microcontrollers	ESET-211	2	2			4	14	56
ESET-317	Energy Auditing	ESET-222	0	4		ODL	4	14	56
ESET318	Thermodynamics 1	ESET-221 or MT-318	1	3		HYB	4	14	56
								Total	336

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Semester 6	Winter 2024								
ENGL-250	Report Writing in a Technical Environment	COMM-170	0	2			2	14	28
ESET-322	Power Generation 2	ESET-312	2	2			4	14	56
ESET-323	Distributed Generation and Transmission	ESET-316, ESET-317	2	2			4	14	56
ESET-324	Geothermal Heat Pumps: Installation & Design	MT-309 or ESET-318	0	4			4	14	56
ESET-325	Building Automation Systems	ESET-314	2	2			4	14	56
ESET-326	Final Project	ESET-312, 315, 317	3	1			4	14	56
ESET-328	Energy Storage and Management	ESET-315	0	3			3	14	42
								Total	350
Total Program Hours:								1372	
C = Co-Requisite; P = Pre-Requisite									
Notes: ♦ This course may be offered in one of the following modalities (Online, Hybrid or Blended) * Minimum "C" grade required for technologist graduation.									

Signature: Clarence Cheung
School Dean/Chair

24-Mar-22
Revised Date