


MODEL ROUTE

School:	School of Engineering Technology and Applied Science - SDRE	Program Number:	3755						
Program Title:	Energy Systems Engineering Technician	Credential:	<input type="checkbox"/> Certificate <input type="checkbox"/> Graduate Certificate <input type="checkbox"/> Degree <input checked="" type="checkbox"/> Diploma <input type="checkbox"/> Advanced Diploma						
Program Delivery Mode:	<input type="checkbox"/> Co-Op <input type="checkbox"/> Online <input type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Non Co-op	Duration :	<input type="checkbox"/> 2 Semesters <input type="checkbox"/> 3 Semesters <input checked="" type="checkbox"/> 4 Semesters <input type="checkbox"/> 6 Semesters <input type="checkbox"/> 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 1	Fall 2022/Winter 2023								
COMM-160/161	College Communications 2		0	3			3	14	42
ESET-111	Energy, Environment and Society		0	2		ODL	2	14	28
MATH-140	Technology Mathematics 1		0	4			4	14	56
PHYS-100	Physics		0	3			3	14	42
ESET-112	Electric Circuits		2	4			6	14	84
ESET-115	Computer Aided Drafting		3	2			5	14	70
								Total	322
Semester 2	Winter 2023/Summer 2023								
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	3			5	14	70
GNED-500	Global Citizenship: From Social Analysis to Social Action 		0	3		ODL, BLD, HYB	3	14	42
MATH-170	Technology Mathematics 2		0	3			3	14	42
ESET123	Applied Statics	PHYS-100	0	4			4	14	56
ESET-124	Electronic Devices	ROBO-112 or ESET-112	2	2			4	14	56
								Total	350
Break (Summer 2023)									
Semester 3	Fall 2023								
AMEG-212	Applied Ethics in Technology and the Environment 		0	2		ODL	2	14	28
ESET-211	Digital & Power Electronics	ROBO-234 or ESET-124	2	2			4	14	56
ESET-212	Boilers & Auxiliaries	PHYS-100 or FT Code	2	2		HYB	4	14	56
ESET-213	Renewable Energy System	ESET-111 or FT Code	2	2			4	14	56
GNED	General Education Elective		0	3			3	14	42
MATH-180	Technology Mathematics 3	MATH-170	0	3			3	14	42
ESET-216	Mechanics and Materials	ROBO-123 OR MT-121 or ESET-123	1	2		ODL	3	14	42
								Total	322

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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 4			Winter 2024						
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-224	Design Project	ESET-213	3	1			4	14	56
ESET-225	Pneumatic/PLC	ESET-211	2	3			5	14	70
GNED	General Education Elective		0	3			3	14	42
								Total	336
Total Program Hours:									1330
C = Co-Requisite; P = Pre-Requisite									
Notes: ♦ This course may be offered in one of the following modalities (Online, Hybrid or Blended)									

Signature: Clarence Cheung
School Dean/Chair

24-Mar-22
Revised Date