SUNY Canton Alternative and Renewable Energy Systems (ARES) - B. Tech. (865)				Fall 201	
	nator: Michael Newtown Advisors: M. Bullwink	el			
1 st Semester			Credit	Term	Grade
AREA 110	Introduction to Alternative Energy		3		
ENGL 101/102	Exp. Writing -or- Oral and Written Expression	(GER 10)	3		
MATH 123	Pre-Calculus Algebra	(GER 1)	4		
PHYS 121/131	College/University Physics I	(GER 2)	3		
PHY 125	Physics Lab 1	(GER 2)	1		
	GER Elective (3,4,5,6,7,8,9) ¹		3		
2 nd Semester			17		
MATH 161	Calculus I	(CED 1)	1 4		
	Introduction to Computer Drafting	(GER 1)	4		
SOET 116			3		
PHYS 122/132 PHYS 126	College/University Physics II Physics Lab 2	(GER 2)	1		
11113 120	•	(ULN Z)	1		
	GER Elective (3,4,5,6,7,8,9) ¹		3		
	Program Elective (100 or 200 level) ²		3		
2rd Carrantan			16		
3 rd Semester MATH 162	Calculus II		4		
ELEC 261	Electricity		4		
MECH 241	Fluid Mechanics		3		
MECH 242	Fluid Power Lab		1		
CHEM 150	College Chemistry I	(GER 2)	4		
C.12.11. 130	conege enermony i	(02.1.2)	16		
4 th Semester					
ELEC 141	Industrial Controls		2		
ENGS 102	Programming for Engineers		2		
MATH 141	Statistics	(GER 1)	3		
ESCI 101	Intro to Environmental Science	(GER 2)	3		
	GER Elective (3,4,5,6,7,8,9) ¹		3		
	Program Elective (100 or 200 level) ²		3		
	Trogram Elective (100 or 200 level)		16		
5 th Semester					
AREA 320	Experimentation & Measurement Lab I		3		
MECH 342	Thermodynamics		3		
AREA	AREA Elective ³		3		
	GER Elective (3,4,5,6,7,8,9) ¹		3		
	Program Elective (300 or 400 level) ²		3		
	r rogram Liective (300 or 400 level)		Э		

6 th Semester									
AREA 370	Experimentation & Measuremer	nt Lab II **		3					
AREA	AREA Elective ³			3					
MECH 343	Heat Transfer			3					
BSAD 340	Management Communications			3					
SOET 370	Engineering Project Analysis			3					
			1	.5	•				
7 th Semester									
ELEC 215	Electrical Energy Conversion			4					
AREA	AREA Elective ³			3					
	Program Elective (300 or 400 lev	/el) ⁴		3					
ACHP 401	Building Automation Systems			3					
SOET 361	Project Management			3					
			1	.6	·				
8 th Semester									
MECH 477	Capstone Project			3					
AREA	AREA Elective ³			3					
CONS 350	Geographic Information System	S		3					
	GER Elective (3,4,5,6,7,8,9) ¹			3					
	Program Elective (300 or 400 lev	/el) ⁴		3					
			1	.5	-				
NOTES:			l						
	Must complete 5 of 7 GER's 3 through 9.								
2	Program electives are lower level (100 or 200) from all ACHP, AREA, CONS, ELEC, MECH,								
3	SOET course listing. A REA electives are unner level (200 or 400) from all A REA course listing.								
	AREA electives are upper level (300 or 400) from all AREA course listing. Program electives are upper level from all ACHP, AREA, CONS, ELEC, MATH, PHYS,								
	MECH, SOET course listing.								
	Writing intensive course.								
	ective Course must come from the	following list:							
GER 3	Social Science	GER 7	Literature/Hum	Literature/Humanities					
GER 4	American History	GER 8	The Arts	The Arts					
GER 5	Western Civilization	GER 9	Foreign Langua	Foreign Language					
GER 6	Other Worlds								

GER's: 1 2 3 4 5 6 7 8 9 10

STUDENT _____ CERTIFIED FOR GRADUATION YES/NO

SSN_____ CERTIFIED BY _____

CLASS OF _____ G.P.A. 1___ 2___ 3___ 4___ 5___ 6___ 7___ 8___

Graduation Requirements: Total Semester Credit Hours - 126

Complete 5 of 7 GER's 3 through 9