

Program Advising Sheet

SUNY Canton Mechanical Engineering Technology (MET) - B. Tech. (0235)				Fall 2022	
Program Coordinator: Dr. Lucas Craig		Advisors: Dr. Lucas Craig, Cullen Haskins			
1 st Semester		Credit	Term	Grade	
MATH 123	Pre-Calculus (GER 1)	4			
MECH 121	Manufacturing Processes I	3			
ENGS 101	Introduction to Engineering	2			
PHYS 121/131	College/University Physics I (GER 2)	3			
PHY 125/135	Physics Lab 1 (GER 2)	1			
MECH 101	Drawing for Engineers	1			
		14			
2 nd Semester					
MATH 161	Calculus I (GER 1)	4			
ENGS 201	Statics	3			
ENGL 101	Composition & The Spoken Word (GER 10)	3			
PHYS 122/132	College/University Physics II (GER 2)	3			
PHYS 126/136	Physics Lab 2 (GER 2)	1			
MECH 102	Parametric Modeling	2			
		16			
3 rd Semester					
MATH 162	Calculus II (GER 1)	4			
ENGS 203	Engineering Strength of Materials	3			
ELEC 261	Electricity	4			
ENGS 314	Fluid Mechanics I	3			
MECH 242	Fluid Power lab	1			
	Humanities GER (7, 8, or 9) ¹	3			
		18			
4 th Semester					
ELEC 141	Industrial Controls	2			
ENGS 350	Mechanics of Machine Elements	4			
MECH 220	Engineering Materials ³	3			
	Elective ²	3			
	Social Science Elective GER (3, 4, 5, or 6) ¹	3			
MECH 303	GD&T (Geometric Dimensioning and Tolerancing)	2			
		17			
5 th Semester					
	Elective (300 or 400 level) ⁴	3			
MECH 342	Thermodynamics	3			
MATH 364	Differential Equations (GER 1)	4			
MATH 141	Statistics (GER 1)	3			
ENGS 102	Programming for Engineers	2			
		15			

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6 th Semester				
MECH 343	Heat Transfer	3		
MECH 312	Engineering Design	3		
SOET 400	Technical Communication	3		
MECH 301 / ENGS 202	Technical Dynamics / Dynamics	3		
	Elective (300 or 400 level) ⁴	3		
		15		
7 th Semester				
MECH 377	Capstone Research & Proposal	1		
	Elective (300 or 400 level) ⁴	3		
	Elective (300 or 400 level) ⁴	3		
	Elective (300 or 400 level) ⁴	3		
	GER Elective (3,4,5,6,7,8,9) ¹	3		
	GER Elective (3,4,5,6,7,8,9) ¹	3		
		16		
8 th Semester				
MECH 477	Capstone Project	3		
ECON 370	Engineering Economics	3		
SOET 377 / SOET 378 / BSAD 319	Eng. Ethics / Ethics for Engineers / Professional Ethics	1/3/3		
	Elective (300 or 400 level) ^{4,5}	3		
	Elective (300 or 400 level) ^{4,5}	3		
		13/15		

NOTES:

- 1 Must complete 7 of 10 GERS and 30 credits
- 2 Electives are lower level (100 or 200) from all ACHP, AREA, CHEM, CITA, CONS, ELEC, ENGS, MATH, MECH, SOET course listing and AUTO 104 will be accepted
- 3 Writing intensive course requirement
- 4 Program electives are upper level from all ACHP, AREA, CITA, CONS, ELEC, MATH, PHYS, MECH, MKTX, SOET course listings. Program electives are selected by advisement based on student interest and career goals
- 5 MECH 480 Co-Op can be equivalent up to 6 credit hours

GER Elective Course must come from the following list:

GER 3	Social Science	GER 7	Literature/Humanities
GER 4	American History	GER 8	The Arts
GER 5	Western Civilization	GER 9	Foreign Language
GER 6	Other Worlds		

Complete 7 of 10 GER's 3 and 30 credits

GER's: 1 ✓ 2 ✓ 3 4 5 6 7 8 9 10 ✓

Completed OSHA 10 Hour Safety Course and Certification is on Record: YES/NO

Graduation Requirements: Total Semester Credit Hours – 124/126

STUDENT _____ CERTIFIED FOR GRADUATION YES/NO

SSN _____ CERTIFIED BY _____

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