

SUNY Canton Mechanical Engineering Technology (MET) - B. Tech. (0235)			Fall 2021		
Program Coordinator: Dr. Lucas Craig			Advisors: Dr. Lucas Craig, Cullen Haskins		
1 st Semester			Credit	Term	Grade
ENGL 101	Composition & The Spoken Word	(GER 10)	3		
MATH 123	Pre Calculus Algebra	(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		
			16		
2 nd Semester					
MECH 128	Electromechanics		3		
	CAD Elective		2/3		
CONS 172	Technical Statics		3		
MATH 161	Calculus I	(GER 1)	4		
PHYS 122/132	College/University Physics II	(GER 2)	3		
PHYS 126/136	Physics Lab 2	(GER 2)	1		
			16/17		
3 rd Semester					
MATH 162	Calculus II	(GER 1)	4		
ELEC 261	Electricity		4		
MECH 241	Fluid Mechanics		3		
MECH 242	Fluid Power lab		1		
ENGS 102	Programming for Engineers		2		
CONS 272	Strength of Materials for Technology		3		
			17		
4 th Semester					
	GER Elective (3,4,5,6,7,8,9) ¹		3		
MECH 220	Engineering Materials ³		3		
MECH 232	Machine Design		3		
	Program Elective (100 or 200 level) ²		3		
	Program Elective (100 or 200 level) ²		3		
			15		
5 th Semester					
	GER Elective (3,4,5,6,7,8,9) ¹		3		
MECH 301	Technical Dynamics		3		
MECH 342	Thermodynamics		3		
SOET 377	Engineering Ethics		1		
MATH 364	Differential Equation	(GER 1)	4		
	Program Elective (300 or 400 level) ⁴		3		
			17		

6 th Semester				
MATH 141	Statistics (GER 1)	3		
MECH 343	Heat Transfer	3		
	Program Elective (300 or 400 level) ⁴	3		
	Program Elective (300 or 400 level) ⁴	3		
	GER Elective (3,4,5,6,7,8,9) ¹	3		
		15		
7 th Semester				
SOET 361	Project Management	3		
MECH 341	Intermediate Fluid Mechanics	3		
MECH 377	Capstone Research & Proposal	1		
	Program Elective (300 or 400 level) ⁴	3		
	Program Elective (300 or 400 level) ⁴	3		
	GER Elective (3,4,5,6,7,8,9) ¹	3		
		16		
8 th Semester				
MECH 477	Capstone Project	3		
SOET 370	Engineering Economics	3		
	Program Elective (300 or 400 level) ^{4,5}	3		
	Program Elective (300 or 400 level) ^{4,5}	3		
		12		

NOTES:

¹ Must complete 7 of 10 GERS and 30 credits

² Program electives are lower level (100 or 200) from all ACHP, AREA, CHEM, CITA, CONS, ELEC, ENGS, MECH, SOET course listing

³ Writing intensive course requirement

⁴ Program electives are upper level from all ACHP, AREA, CITA, CONS, ELEC, MATH, PHYS, MECH, SOET course listing. Program electives are selected by advisement based on student interest and career goals

⁶ MECH480 Co-Op can be equivalent up to 6 credit hours

⁷ CAD Electives (MECH112, SOET116, SOET250)

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 – 124/125