

SUNY Canton Mechanical Technology (MT) - B. Tech. (2250)			Fall 2014		
Program Coordinator: L. Tian Advisors: Lin Tian, Lucas Craig, Daniel Miller					
1 st Semester			Credit	Term	Grade
ENGL 101/102	Exp. Writing -or- Oral and Written Expression	(GER 10)	3		
MATH 123	Pre Calculus Algebra	(GER 1)	4		
	CAD Elective		2/3		
ENGS 101	Introduction to Engineering		2		
PHYS 121/131	College/University Physics I	(GER 2)	3		
PHY 125	Physics Lab 1	(GER 2)	1		
			15/16		
2 nd Semester					
MECH 128	Electromechanics		3		
ENGS 102	Programming for Engineers		2		
CONS 172	Technical Statics		3		
MATH 161	Calculus I	(GER 1)	4		
PHYS 122/132	College/University Physics II		3		
PHYS 126	Physics Lab 2	(GER 2)	1		
			16		
3 rd Semester					
MATH 162	Calculus II		4		
ELEC 261	Electricity		4		
MECH 241	Fluid Mechanics		3		
MECH 242	Fluid Power Lab		1		
CONS 272	Strength of Materials for Technology		3		
			15		
4 th Semester					
	GER Elective (3,4,5,6,7,8,9) ¹		3		
	Program Elective (100 or 200 level) ^{2,3}		3		
	Program Elective (100 or 200 level) ²		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		4		
	Program Elective (300 or 400 level) ⁴		3		
			17		

6 th Semester				
MATH 141	Statistics	3		
MECH 343	Heat Transfer	3		
SOET 348	Engineering Safety	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		
7 th Semester				
SOET 361	Project Management	3		
MECH 341	Intermediate Fluid Mechanics	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		
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		
	GER Elective (3,4,5,6,7,8,9) ¹	3		
		15		

NOTES:

- 1 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, ENGS, MECH, SOET course listing.
- 3 Writing intensive course requirement (advise MECH220).
- 4 Program electives are upper level from all ACHP, AREA, CONS, ELEC, MATH, PHYS, MECH, SOET course listing. Program electives are selected by advisement based on student interest and career goals.
- 5 Internship can be equivalent to 6 credit hours.
- 6 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 5 of 7 GER's 3 through 9

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

Graduation Requirements: Total Semester Credit Hours – 124/125

STUDENT _____ CERTIFIED FOR GRADUATION YES/NO

SSN _____ CERTIFIED BY _____

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