

SUNY Canton Civil & Environmental Engineering Technology BTech 2488			Fall 2026
1 st Semester		Credit	
ENGS 101	Introduction to Engineering	2	
SOET 116	Intro to Computer Aided Drafting + Design	2	
CONS 101	Elementary Surveying	4	
MATH 123	Pre-Calculus Algebra ¹	4	
CHEM 150	College Chemistry I	4	
		16	
2 nd Semester			
CONS 201	Civil Engineering Software Topics	3	
SOET 250	Intro to 3D CADD and BIM	2	
ENGL 101	Composition and the Spoken Word ²	3	
MATH 161	Calculus I ¹	4	
PHYS 131	University Physics I	3	
PHYS 135	University Physics I Lab	1	
		16	
3 rd Semester			
ENGS 201	Statics	3	
CONS 280	Civil Engineering Materials	3	
	GenEd Elective (GER 6, 7, 8, 9, 10, 11)	3	
MATH 162	Calculus II ¹	4	
PHYS 132	University Physics II	3	
PHYS 136	University Physics II Lab	1	
		17	
4 th Semester			
CONS 216	Soils in Construction ²	4	
ENGS 203	Strength of Materials	3	
CONS 275	Strength of Materials Lab	1	
CONS 322	Hydraulics	4	
	Diversity GER (GER 3)	3	
CONS 282	Introduction to Structural Engineering Design	3	
		18	
5 th Semester			
CONS 336	Structural Analysis	3	
CONS 386/ CONS 385	Water Quality (even falls, 4cr) or Hydrology & Hydrogeology (odd falls, 4 cr)	4	
Math 364	Differential Equations ¹	4	
CONS 222	Construction Estimating	2	
	Program Elective ³	3	
		16	

6 th Semester			
ECON 370	Engineering Economics	3	
CONS 387/ CONS 384	Water & Wastewater Treatment (odd springs, 3cr) or Engineering Geology (even springs, 4cr) or ESCI 107 Earth Science	3	
CIVL 339	Structural Analysis Lab	1	
CONS 304/ CONS 324	Reinforced Concrete (even springs) or Structural Steel Design (odd springs)	3	
CONS 274	Construction Management	3	
		13	
7 th Semester			
SOET 377	Engineering Ethics	1	
	GenEd Elective (GER 6, 7, 8, 9, 10, 11)	3	
CONS 386/ CONS 385	Water Quality (even falls, 4cr) or Hydrology & Hydrogeology (odd falls, 4 cr)	4	
CONS 476	Pre-Capstone	1	
	Program Elective ³	3	
	GenEd Elective (GER 6, 7, 8, 9, 10, 11)	3	
		15	
8 th Semester			
CONS 477	Capstone Project	3	
SOET 348	Engineering Safety	1	
CONS 387/ CONS 384	Water & Wastewater Treatment (odd springs, 3cr) or Engineering Geology (even springs, 4cr) or ESCI 107 Earth Science	4	
CONS 304/ CONS 324	Reinforced Concrete (even springs) or Structural Steel Design (odd springs)	3	
	Program Elective ³	3	
		14	
Total Credits		125	

Footnotes: ⁻¹ - Math leveling. If leveled higher at MATH 161, will take MATH 161, MATH 162, MATH 263, and MATH 364; ⁻² - Writing Intensive; ⁻³ - Program Elective must be from approved list or approved by Civil and Construction Department Chair

Graduation Requirements: Total Semester Credit Hours – 125 Minimum G.P.A. 2.0

Approved Program Electives (others with approval and petition of advisor or Department Chair)	
CONS 203, CONS 350, CONS 316, CONS 366, CONS 370, CONS 372, CONS 432, CONS 485, CONS 486, CONS 487, CIVL 403, CIVL 404, CIVL 305, CIVL 306, CIVL 312, CIVL 313, CIVL 326, CIVL 421, CIVL 424, CIVL 425, CIVL 481, CIVL 485, other new CIVL courses developed after Fall 2026, SOET 314, SOET 352, SOET 353, CHEM 155, BIOL 150, or course approved by civil department academic advisor or civil department chair	