



Civil Engineering Associates of Pre-Engineering

(Articulation for USU, Updated
8-28-2024)

X	Course	Credits	Semester Offered	Online Offered?	Milestones
Freshman (Fall 1)					
	ENGR 1000 Introduction to Engineering ²	2	Fall, Spring	X	Meet with your ENGINEERING advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	ENGR 2240 Surveying & Global Positioning	3	Fall		
	MATH 1210 Calculus I	5	Fall, Spring, Summer		
	CHEM 1210 Principles of Chemistry I	4	Fall, Spring		
	CHEM 1215 Principles of Chemistry I Lab	1	Fall, Spring		
	ENGL 1010 (or GE Breadth Course if completed in HS)	3	Fall, Spring, Summer	X	
	Total Credits	18			
Freshman (Spring 1)					
	ENGR 2270 AutoCAD	3	Fall, Spring		Meet with your ENGINEERING advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	MATH 1220 Calculus II	4	Fall, Spring, Summer		
	PHYS 2210 Physics for Engineers I	4	Fall, Spring		
	PHYS 2215 Physics for Engineers I Lab	1	Fall, Spring		
	BIOL 1010 General Biology	3	Fall, Spring	X	
	GE Breadth Course	3	Fall, Spring	X	
	Total Credits	15			
Sophomore (Fall 2)					
	ENGR 2010 Statics	3	Fall, Spring		Meet with your ENGINEERING advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	MATH 2210 Multivariable Calculus	3	Fall, Spring		
	GE Breadth Course	3	Fall, Spring	X	
	GEOL 1110 Physical Geology	3	Fall		
	GEOL 1115 Physical Geology Lab	1	Fall		
	ENGR 2250 Analog Circuits I ³ (choose 2250/2255 OR 2300)	3	Fall		
	ENGR 2255 Analog Circuits I Lab ³	1	Fall		
	Total Credits	17			
Sophomore (Spring 2)					
	ENGR 2300 Thermodynamics ³ (choose 2250/2255 OR 2300)	3	Spring		Meet with your ENGINEERING advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)
	ENGR 2030 Dynamics	3	Fall, Spring		
	ENGL 2010 Intermediate Writing	3	Fall, Spring, Summer	X	
	MATH 2250 Linear Algebra & Diff. Eq.	4	Fall, Spring		
	ENGR 2140 Mechanics of Materials	3	Fall, Spring		
	ENGR 1400 Fundamentals of Programming ⁴	3	Fall, Spring	X	
	ENGR 1405 Fundamentals of Programming Lab ⁴	1	Fall, Spring	X	
	Total Credits	17	or 17		
Total Credits		67	of 64 required		

(1) For most recent information, students must contact their transfer institution directly, and TALK TO AN ENGINEERING ADVISOR

(2) This course does not transfer to USU but is still recommended

(3) Students must choose one course between either Analog Circuits 2250/2255 or Thermodynamics ENGR 2300

(4) It may be beneficial to schedule ENGR 1400/1405 to be in a different semester than the course chosen between ENGR 2250/2255 and ENGR 2300

Additional Courses to Consider While Working on Math Credits:

ENGL 3260 Technical Writing, ENGR 2450 Numerical Methods, ENGR 2160/2167 Material Science