



Computer Engineering Associates of Pre-Engineering

(Articulation for USU,
Updated 8-28-24)

Engineering
Science
(12 Credits)

✘	Course	Credits	Semester Offered	Online	Milestones	
	Freshman (Fall 1)				Meet with your ENGINEERING advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)	
	ENGR 1400 Fundamentals of Programming	3	Fall, Spring	X		
	ENGR 1405 Fundamentals of Programming Lab	1	Fall, Spring	X		
	ENGR 1000 Introduction to Engineering **	2	Fall, Spring	X		
	MATH 1210 Calculus I	5	Fall, Spring, Summer			
	ENGL 1010 Expository Writing	3	Fall, Spring, Summer	X		
	GE	3	Fall, Spring, Summer	X		
	Total Credits	17				
	Freshman (Spring 1)				Meet with your ENGINEERING advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)	
	ENGR 1410 Object-oriented Programming	3	Fall, Spring			
	ENGR 1415 Object-oriented Programming Lab	1	Fall, Spring			
	ENGR 2700 Digital Circuits	3	Fall, Spring			
	ENGR 2705 Digital Circuits Lab	1	Fall, Spring			
	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			
	Total Credits	17				
	Sophomore (Fall 2)				Meet with your ENGINEERING advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)	
	CS 2420 Data Structures and Algorithms	3	Fall			
	ENGR 2250 Analog Circuits I	3	Fall			
	ENGR 2255 Analog Circuits I Lab	1	Fall			
	MATH 2270 Linear Algebra	3	Fall, Spring			
	PHYS 2220 Physics for Engineers II	4	Fall, Spring			
	PHYS 2225 Physics for Engineers II Lab	1	Fall, Spring			
	Total Credits	15				
	Sophomore (Spring 2)				Meet with your ENGINEERING advisor. Earn 2.0 GPA or higher (Bachelor's degree may require higher GPA)	
	ENGR 2290 Analog Circuits II	3	Spring			
	ENGR 2295 Analog Circuits II Lab	1	Spring			
	MATH 2280 Differential Equations	3	Spring			
	Technical Elective	3	Fall, Spring			
	ENGL 2010 Intermediate Writing	3	Fall, Spring, Summer	X		
	GE	3	Fall, Spring			
	Total Credits	16				
	Total Credits	65	of 64 required			0

For most recent information, students must contact their transfer institution directly. and TALK TO ENGINEERING ADVISOR

** This course does not transfer to USU but is still recommended

of 12

Additional Courses to Consider While Working on Math Credits: ENGL 3260 Tech Writing