

Required for USU Major	Articulation of Pre-engineering Courses between College of Southern Idaho and Utah State University current as of: 12/16/2015				
B I E N	C I V I L	E N V I R	C O M P	E L E C T	M E C H

USU							CSI			
						Course	Cr	Course Title	Course	Cr
X						BENG 1880	3	Quantitative Biological Systems		
X						BENG 2330	3	Properties of Biomaterials		
X		X				BENG 2400	3	Biological Thermodynamics		
	X	X				BIOL 1010	3	Biology and the Citizen		
X						BIOL 1610	4	Biology I	BIOL 201	4
X						BIOL 3300	4	General Microbiology		
	X	X				CEE 1880	1	CEE Orientation & Computer Applications		
	X	X				CEE 2240	3	Engineering Surveying	ENGI 241	4
X	X	X				CEE 2870	2	Intro to Programming	COMS 228	3
		X				CEE 2890	1	Sophomore Seminar - Environmental		
X	X	X			X	CHEM 1210+1215	4+1	Principles of Chemistry I + Lab I	CHEM 111	5
		X				CHEM 1220+1225	4+1	Principles of Chemistry II + Lab II	CHEM 112	5
X						CHEM 2300	3	Principles of Organic Chemistry	CHEM 298	4
X						CHEM 2315	1	Organic Chemistry Lab I	CHEM 298L	4
X						CHEM 3700	3	Introduction to Biochemistry		
X						CHEM 3710	1	Introduction to Biochemistry Lab		
			X	X	X ²	CS 1400	3	Intro to Computer Science - CS 1		3
					X	CS 1405	1	Intro to Computer Science - CS 1 Lab		
			X	X		CS 1410	3	Intro to Computer Science - CS 2	COMS 229 ¹	3
			X			CS 2420	3	Algorithms & Data Structures - CS 3	COMS 250 ¹	
			X			CS 3100	3	OS + Concurrency		
			X	X		ECE 2250	3	Electrical Circuits I	ENGI 240	4
			X	X		ECE 2700	4	Digital Circuits		
			X	X		ECE 2290	3	Electrical Circuits II		
X	X	X	X	X	X	ENGL 1010	3	Introduction to Writing	ENGL 101	3
X	X	X	X	X	X	ENGL 2010	3	Intermediate Writing	ENGL 201	3
X	X	X			X	ENGR 2010	3	Engineering Mechanics - Statics	ENGI 210	3
X	X	X			X	ENGR 2030	3	Engineering Mechanics - Dynamics	ENGI 220	3
	X				X	ENGR 2140	3	Strength of Materials		
X	X		X	X		ENGR 2450	3	Engineering Numerical Methods		
X	X				X	ENGR 2210	3	Fundamental Electronics		
X	X	X				ETE 2270	2	Computer Engineering Drafting		
	X					GEO 1110/1115	3+1	Dynamic Earth	GEOL 101	4
					X	MAE 1200	2	Engineering Graphics		
					X	MAE 2160	3	Material Science		
					X	MAE 2165	1	Material Science Lab		
	X				X	MAE 2300	3	Thermodynamics I		
X	X	X	X	X	X	MATH 1210	4	Calculus I	MATH 170	5
X	X	X	X	X	X	MATH 1220	4	Calculus II	MATH 175	4
	X			X	X	MATH 2210	3	Multivariable Calculus	MATH 275	4
X	X	X			X	MATH 2250	4	Linear Algebra & Differential Equations	MATH 230 + 310	3+3
			X	X		MATH 2270	3	Linear Algebra	MATH 230	3
			X	X		MATH 2280	3	Ordinary Differential Equations	MATH 310	3
			X			MATH 3310	3	Discrete Mathematics		
			X	X		MATH 5710	3	Introduction to Probability		
X	X	X	X	X	X	PHYS 2210 + 2215	4+1	General Physics - Science I	PHYS 211	5
			X	X	X	PHYS 2220 + 2225	4+1	General Physics - Science II	PHYS 212	5

¹Series should be completed at one school csi.edu

²Mechanical Engineering requires C++. C or C# can be acceptable.