

Required for USU Major	Articulation of Pre-engineering Courses between Southern Utah University 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		SUU		
						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	ENGR 3000	3
	X	X				BIOL 1010	3	Biology and the Citizen	Biol 1010	3
X						BIOL 1610	4	Biology I	Biol 1610 + 1615	3+1
X						BIOL 3300	4	General Microbiology		
	X	X				CEE 1880	1	CEE Orientation & Computer Applications	Engr 1010	3
	X	X				CEE 2240	3	Engineering Surveying		
X	X	X				CEE 2870	2	Intro to Programming		
		X				CEE 2890	1	Sophomore Seminar - Environmental	Engr 1010	3
X	X	X			X	CHEM 1210+1215	4+1	Principles of Chemistry I + Lab I	Chem 1210+1215	4+1
		X				CHEM 1220+1225	4+1	Principles of Chemistry II + Lab II	Chem 1220+1225	4+1
X						CHEM 2300	3	Principles of Organic Chemistry	Chem 2310	4
X						CHEM 2315	1	Organic Chemistry Lab I	Chem 2315	1
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	CSIS 1400 ^{1,2}	3
					X	CS 1405	1	Intro to Computer Science - CS 1 Lab		
			X	X		CS 1410	3	Intro to Computer Science - CS 2	CSIS 1410 ¹	3
			X			CS 2420	3	Algorithms & Data Structures - CS 3	CSIS 2420 ¹	3
			X			CS 3100	3	OS + Concurrency	CSIS 3600	3
			X	X		ECE 2250	3	Electrical Circuits I	Engr 2250+2255	3+1
			X	X		ECE 2290	3	Electrical Circuits II		
			X	X		ECE 2700	4	Digital Circuits	Engr 4030+4035	3+1
X	X	X	X	X	X	ENGL 1010	3	Introduction to Writing	Engl 1010	3
X	X	X	X	X	X	ENGL 2010	3	Intermediate Writing	Engl 2010	3
X	X	X			X	ENGR 2010	3	Engineering Mechanics - Statics	Engr 2010	3
X	X	X			X	ENGR 2030	3	Engineering Mechanics - Dynamics	Engr 2030	3
	X				X	ENGR 2140	3	Strength of Materials	Engr 2140	3
X	X		X	X		ENGR 2450	3	Engineering Numerical Methods	Math 3600	3
X	X				X	ENGR 2210	3	Fundamental Electronics		
X	X	X				ENGR 2270	2	Computer Engineering Drafting	Engr 1030	3
	X					GEO 1110/1115	3+1	Dynamic Earth	Geo 1110+1115	3+1
					X	MAE 1200	2	Engineering Graphics	Engr 1030	3
					X	MAE 2160	3	Material Science	Engr 3010	3
					X	MAE 2165	1	Material Science Lab	Engr 3015	1
	X				X	MAE 2300	3	Thermodynamics I	Engr 3000	3
X	X	X	X	X	X	MATH 1210	4	Calculus I	Math 1210	4
X	X	X	X	X	X	MATH 1220	4	Calculus II	Math 1220	4
	X			X	X	MATH 2210	3	Multivariable Calculus	Math 2210	4
X	X	X			X	MATH 2250	4	Linear Algebra & Differential Equations	Math 2250	4
			X	X		MATH 2270	3	Linear Algebra	Math 2270	3
			X	X		MATH 2280	3	Ordinary Differential Equations	Math 2280	3
			X			MATH 3310	3	Discrete Mathematics	Math 1630	3
			X	X		MATH 5710	3	Introduction to Probability		
X	X	X	X	X	X	PHYS 2210 + 2215	4+1	General Physics - Science I	Phys 2210+2215	4+1
			X	X	X	PHYS 2220 + 2225	4+1	General Physics - Science II	Phys 2220+2225	4+1

¹Series should be completed at one school suu.edu
²Mechanical Engineering requires C++. C or C# can be acceptable.