

Required for USU Major	Articulation of Pre-engineering Courses between Dixie State University and Utah State University current as of: 12/16/2015
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							USU		Dixie		
B	C	E	C	E	M	MECH	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 2300	3
	X	X					BIOL 1010	3	Biology and the Citizen	BIOL 1010	3
X							BIOL 1610	4	Biology I	Biol 1610 +1615	4+1
X							BIOL 3300	4	General Microbiology		
	X	X					CEE 1880	1	CEE Orientation & Computer Applications		
	X	X					CEE 2240	3	Engineering Surveying		
X	X	X					CEE 2870	2	Intro to Programming		
		X					CEE 2890	1	Sophomore Seminar - Environmental		
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	CS 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	CS 1410 ¹	3
			X				CS 2420	3	Algorithms & Data Structures - CS 3	CS 2420 ¹	3
			X				CS 3100	3	OS + Concurrency	CS 3400	3
			X	X			ECE 2250	3	Electrical Circuits I	ENGR 2250+2255	3 + 1
			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 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		
X	X				X		ENGR 2210	3	Fundamental Electronics		
X	X	X					ENGR 2270	2	Computer Engineering Drafting		
	X						GEO 1110/1115	3+1	Dynamic Earth	Geo 1110 + 1115	3+1
					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	Engr 2300	3
X	X	X	X	X	X		MATH 1210	4	Calculus I	Math 1210	5
X	X	X	X	X	X		MATH 1220	4	Calculus II	Math 1220	4
	X			X	X		MATH 2210	3	Multivariable Calculus	Math 2210	3
X	X	X			X		MATH 2250	4	Linear Algebra & Differential Equations	Math 2270+2280	3+3
			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	CS 3310	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 dixie.edu
²Mechanical Engineering requires C++. C or C# can be acceptable.