

Required for USU Major						Articulation of Pre-engineering Courses between Southern Utah University and Utah State University 6/17/2011					
B	C	E	C	E	M	USU				SUU	
I	I	N	O	L	E	Course	Cr	Course Title	Course	Cr	
E	V	V	M	E	C						
N	I	I	P	C	H						
	L	R		T							
X						BENG 1880	3	Quantitative Biological Systems			
X						BENG 2330	3	Properties of Biomaterials			
X						BENG 2400	3	Biological Thermodynamics	ENGR 3000	3	
X						BIOL 1610 (was 1210)	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	Engr 2240 + 2245	2+1	
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	4	Principles of Chemistry I	Chem 1210	4	
X	X				X	CHEM 1215 (was 1230)	1	Principles of Chemistry Lab I	Chem 1215	1	
X						CHEM 2300	3	Principles of Organic Chemistry	Chem 2310	4	
X						CHEM 2315 (was 2330)	1	Organic Chemistry Lab I	Chem 2315	1	
X						CHEM 3700	3	Introduction to Biochemistry	Chem 4110	4	
X						CHEM 3710	1	Introduction to Biochemistry Lab			
			X	X		CS 1400 (was 1700)*	3	Intro to Computer Science - CS 1	CSIS 1400*	3	
						CS 1405 (was 1710)*	1	Intro to Computer Science - CS 1 Lab			
			X	X		CS 1410 (was 1720)*	3	Intro to Computer Science - CS 2	CSIS 1410*	3	
			X			CS 2420 (was 2200)*	3	Algorithms & Data Structures - CS 3	CSIS 2420*	3	
			X			CS 3100	3	OS + Concurrency	CSIS 3600	3	
			X	X		ECE 1000 (was 1010)	2	Intro to Electrical & Computer Engineering	Engr 1010	3	
			X	X		ECE 2250 (was 2270/2410)	4	Electrical Circuits	Engr 2270 +2275	3+1	
			X	X		ECE 2700 (was 2530)	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 (was 2000)	3	Engineering Mechanics - Statics	Engr 2010	3	
X	X	X			X	ENGR 2030 (was 2020)	3	Engineering Mechanics - Dynamics	Engr 2030	3	
	X	X			X	ENGR 2140 (was 2040)	3	Strength of Materials	Engr 2140	3	
X	X	X				ENGR 2450 (was 2210)	3	Engineering Numerical Methods	Math 3600	3	
X	X				X	ENGR 2210 (was ETE)	3	Electrical Engineering for Non-majors			
X	X	X				ETE 2270	2	Computer Engineering Drafting	Engr 1030	3	
	X	X				GEO 1110/1115	3+1	Dynamic Earth	Geo 1110+1115	3+1	
					X	MAE 1200	2	Engineering Graphics			
	X				X	MAE 2160 (was 2060)	3	Material Science	Engr 3010	3	
	X				X	MAE 2165	1	Material Science Lab	Engr 3015	1	
					X	MAE 2200	3	Engineering Numerical Methods I			
	X	X			X	MAE 2300 (was 2400)	3	Thermodynamics I	Engr 3000	3	
					X	MAE 2450 (was 2210)	3	Engineering Numerical Methods II	Math 3600	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	MATH 2210	3	Multivariable Calculus	Math 2210	4	
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			
			X	X		MATH 5710	3	Introduction to Probability			
					X	PHYS 2200	2	Elements of Mechanics	Phys 2210 + 2215	4+1	
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	

* Series should be completed at one school.

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