

Required for USU Major						<b>Articulation of Pre-engineering Courses</b> between <b>Brigham Young University</b> and <b>Utah State University</b> current as of: 6/17/2011				
B	C	E	C	E	M					
I	I	N	O	L	E					
E	V	V	M	E	C					
N	I	I	P	C	H					
L	R	R	T	T						

						USU		BYU		
						Course	Cr	Course Title	Course	Cr
X						BENG 1880	3	Quantitative Biological Systems		
X						BENG 2330	3	Properties of Biomaterials		
X						BENG 2400	3	Biological Thermodynamics	MeEn 321	3
X						BIOL 1610 (was 1210)	4	Biology I		
X						BIOL 3300	4	General Microbiology		
	X	X				CEE 1880	1	CEE Orientation & Computer Applications	CEEn 100a+100b	1
	X	X				CEE 2240	3	Engineering Surveying	CEEn 113	3
X	X	X				CEE 2870	2	Intro to Programming	CS 142*	3
		X				CEE 2890	1	Sophomore Seminar - Environmental		
X	X	X			X	CHEM 1210	4	Principles of Chemistry I	Chem 105	4
X	X				X	CHEM 1215 (was 1230)	1	Principles of Chemistry Lab I	Chem 107	1
X						CHEM 2300	3	Principles of Organic Chemistry	Chem 351	3
X						CHEM 2315 (was 2330)	1	Organic Chemistry Lab I	Chem 353	1
X						CHEM 3700	3	Introduction to Biochemistry	Chem 481	3
X						CHEM 3710	1	Introduction to Biochemistry Lab		
			X	X		CS 1400 (was 1700)*	3	Intro to Computer Science - CS 1	CS 142*	3
						CS 1405 (was 1710)*	1	Intro to Computer Science - CS 1 Lab	CS 142*	3
			X	X		CS 1410 (was 1720)*	3	Intro to Computer Science - CS 2	CS 235*	3
			X			CS 2420 (was 2200)*	3	Algorithms & Data Structures - CS 3	CS 240*	4
			X			CS 3100	3	OS + Concurrency	CS 345	3
			X	X		ECE 1000 (was 1010)	2	Intro to Electrical & Computer Engineering		
			X	X		ECE 2250 (was 2270/2410)	4	Electrical Circuits	ECEn 212	5
			X	X		ECE 2700 (was 2530)	4	Digital Circuits	ECEn 224	3
X	X	X	X	X	X	ENGL 1010	3	Introduction to Writing	Engl 115	3
X	X	X	X	X	X	ENGL 2010	3	Intermediate Writing	Engl 316	3
X	X	X			X	ENGR 2010 (was 2000)	3	Engineering Mechanics - Statics		
X	X	X			X	ENGR 2030 (was 2020)	3	Engineering Mechanics - Dynamics	CEEn 204	3
	X	X			X	ENGR 2140 (was 2040)	3	Strength of Materials	CEEn 203	3
X	X	X				ENGR 2450 (was 2210)	3	Engineering Numerical Methods	Math 410	3
X	X				X	ENGR 2210 (was ETE)	3	Electrical Engineering for Non-majors	ECEn 301	3
X	X	X				ETE 2270	2	Computer Engineering Drafting	CEEn 112	3
	X	X				GEO 1110/1115	3+1	Dynamic Earth	Geol 111	4
					X	MAE 1200	2	Engineering Graphics	MeEn 172	3
	X				X	MAE 2160 (was 2060)	3	Material Science	MeEn 250	3
	X				X	MAE 2165	1	Material Science Lab		
					X	MAE 2200	3	Engineering Numerical Methods I	Math 410*	3
	X	X			X	MAE 2300 (was 2400)	3	Thermodynamics I	MeEn 321	3
					X	MAE 2450 (was 2210)	3	Engineering Numerical Methods II	Math 411*	3
X	X	X	X	X	X	MATH 1210	4	Calculus I	Math 112	4
X	X	X	X	X	X	MATH 1220	4	Calculus II	Math 113	4
	X				X	MATH 2210	3	Multivariable Calculus	Math 314	3
X	X	X			X	MATH 2250	4	Linear Algebra & Differential Equations	Math 313+334	3+3
			X	X		MATH 2270	3	Linear Algebra	Math 313	3
			X	X		MATH 2280	3	Ordinary Differential Equations	Math 334	3
			X			MATH 3310	3	Discrete Mathematics		
			X	X		MATH 5710	3	Introduction to Probability	Stat 341	3
					X	PHYS 2200	2	Elements of Mechanics	Phscs 121	3
X	X	X	X	X		PHYS 2210 + 2215	4+1	General Physics - Science I	Phscs 121	3
			X	X	X	PHYS 2220 + 2225	4+1	General Physics - Science II	Phscs 220+123	3+3

\*Series should be completed at one school