

Required for USU Major							Articulation of Pre-engineering Courses between Brigham Young University - Idaho and Utah State University current as of: 6/5/2009				
B	C	E	C	E	M		USU			BYU - I	
I	I	N	O	L	E		Course	Cr	Course Title	Course	Cr
E	V	V	M	E	C						
L	I	I	P	C	H						
X							BIE 1880	3	Quantitative Biological Systems		
X							BIE 2330	3	Properties of Biomaterials		
X							BIE 2400	3	Biological Thermodynamics	ME 322	4
X							BIOL 1610 (was 1210)	4	Biology I	BIO 200	4
X		X					BIOL 3300	4	General Microbiology	BIO 221+222	3+1
	X	X					CEE 1880	1	CEE Orientation & Computer Applications		
	X	X					CEE 2240	3	Engineering Surveying		
	X						CEE 2870	1	Sophomore Seminar - Civil		
		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 105	4
X							CHEM 2300	3	Principles of Organic Chemistry	CHEM 351	4
X							CHEM 2315 (was 2330)	1	Organic Chemistry Lab I	CHEM 351	4
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 124*	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	CS 165*	3
			X				CS 2420 (was 2200)	3	Algorithms & Data Structures - CS 3	CS 235*	3
			X				CS 2450 (was 2370)	3	Software Engineering		
			X				CS 3100	3	OS + Concurrency	CS 345	3
			X	X			ECE 1000 (was 1010)	2	Intro to Electrical & Computer Engineering	COMPE 150	3
			X	X			ECE 2250 (was 2270/2410)	4	Electrical Circuits	COMPE 250	4
			X	X			ECE 2700 (was 2530)	4	Digital Circuits	COMPE 224	3
X	X	X	X	X	X		ENGL 1010	3	Introduction to Writing	Eng 111	3
X	X	X	X	X	X		ENGL 2010	3	Intermediate Writing	Eng 316	3
X							ENGR 1000 (was 1010)	2	Introduction to Engineering Design		
X	X	X			X		ENGR 2010 (was 2000)	2	Engineering Mechanics - Statics	ME 201	2
X	X	X			X		ENGR 2030 (was 2020)	3	Engineering Mechanics - Dynamics	ME 204	3
	X	X			X		ENGR 2140 (was 2040)	2	Strength of Materials	ME 202	3
X	X	X					ENGR 2450 (was 2210)	2	Engineering Numerical Methods		
X	X				X		ETE 2210 (was 2200)	4	Electrical Engineering for Non-majors	COMPE 250	4
X	X	X					ETE 2270	2	Computer Engineering Drafting	ME 172	3
	X	X					GEO 1110 (was 1150)	4	Dynamic Earth	Geol 111+ 111L	3+1
					X		MAE 1200	2	Engineering Graphics		
	X				X		MAE 2160 (was 2060)	3	Material Science	ME 250	3
					X		MAE 2200	2	Engineering Numerical Methods I	ME 142*	2
	X	X			X		MAE 2300 (was 2400)	3	Thermodynamics I	ME 322	4
					X		MAE 2450 (was 2210)	3	Engineering Numerical Methods II	ME 242*	3
					X		MAE 2650 (was 2600)	3	Manufacturing Processes		
X	X	X	X	X	X		MATH 1210	4	Calculus I	FDMAT 112**	4
X	X	X	X	X	X		MATH 1220	4	Calculus II	Math 113 or 215**	3 or 4
	X			X	X		MATH 2210	3	Multivariable Calculus	Math 214 or 316**	3 or 4
X	X	X			X		MATH 2250	4	Linear Algebra & Differential Equations	Math 341+ 371**	3+3
			X	X			MATH 2270	3	Linear Algebra	Math 341	3
			X	X			MATH 2280	3	Ordinary Differential Equations	Math 371	3
			X				MATH 3310	3	Discrete Mathematics	CS 236	4
			X	X			MATH 5710	3	Introduction to Probability		
X	X	X			X		PHYS 2200	2	Elements of Mechanics	Ph 121	3
			X	X			PHYS 2210	4	General Physics - Science I	Ph 121	3
	X	X	X	X	X		PHYS 2220	4	General Physics - Science II	Ph 123+220	3+3

*Series should be completed at one school

**112+113+214+341+371 or 112+215+316+3 credits math