

Required for USU Major						Articulation of Pre-engineering Courses between Idaho State University and Utah State University current as of: 6/17/2011				
B	C	E	C	E	M	USU			ISU	
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 3307	3
X						BIOL 1610 (was 1210)	4	Biology I	BIOL 1101 + 1101L	4
X						BIOL 3300	4	General Microbiology	BIOL 2235	4
	X	X				CEE 1880	1	CEE Orientation & Computer Applications		
	X	X				CEE 2240	3	Engineering Surveying	CE 3301	3
X	X	X				CEE 2870	2	Intro to Programming	ENGR 1165	2
		X				CEE 2890	1	Sophomore Seminar - Environmental		
X	X	X			X	CHEM 1210	4	Principles of Chemistry I	CHEM 1111	5
X	X				X	CHEM 1215 (was 1230)	1	Principles of Chemistry Lab I	CHEM 1111	-
X						CHEM 2300	3	Principles of Organic Chemistry	CHEM 3301	3
X						CHEM 2315 (was 2330)	1	Organic Chemistry Lab I	CHEM 3303	1
X						CHEM 3700	3	Introduction to Biochemistry	BIOL 4445	3
X						CHEM 3710	1	Introduction to Biochemistry Lab		
			X	X		CS 1400 (was 1700)*	3	Intro to Computer Science - CS 1	CS 1181 * + 1181L	2+1
						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 1182 * + 1182L	2+1
			X			CS 2420 (was 2200)*	3	Algorithms & Data Structures - CS 3	CS 3385 *	3
			X			CS 3100	3	OS + Concurrency		
			X	X		ECE 1000 (was 1010)	2	Intro to Electrical & Computer Engineering	EE 2240	3
			X	X		ECE 2250 (was 2270/2410)	4	Electrical Circuits	EE 3340	3+1
			X	X		ECE 2700 (was 2530)	4	Digital Circuits	EE 2274 + 2275	3+1
X	X	X	X	X	X	ENGL 1010	3	Introduction to Writing	ENGL 1101	3
X	X	X	X	X	X	ENGL 2010	3	Intermediate Writing	ENGL 1102	3
X	X	X			X	ENGR 2010 (was 2000)	3	Engineering Mechanics - Statics	ENGR 2210	3
X	X	X			X	ENGR 2030 (was 2020)	3	Engineering Mechanics - Dynamics	ENGR 2220	3
	X	X			X	ENGR 2140 (was 2040)	3	Strength of Materials	ENGR 3350	3
X	X	X				ENGR 2450 (was 2210)	3	Engineering Numerical Methods	ENGR 3364	3
X	X				X	ENGR 2210 (was ETE)	3	Electrical Engineering for Non-majors	EE 2240	3
X	X	X				ETE 2270	2	Computer Engineering Drafting	ENGR 1105	2
	X	X				GEO 1110/1115	3+1	Dynamic Earth	GEOL 1101 + 1110	3+1
					X	MAE 1200	2	Engineering Graphics	ME 1105	3
	X				X	MAE 2160 (was 2060)	3	Material Science	ENGR 2223	3
	X				X	MAE 2165	1	Material Science Lab	ENGR 2224	1
					X	MAE 2200	3	Engineering Numerical Methods I		
	X	X			X	MAE 2300 (was 2400)	3	Thermodynamics I	ENGR 3307	3
					X	MAE 2450 (was 2210)	3	Engineering Numerical Methods II	ENGR 3364	3
X	X	X	X	X	X	MATH 1210	4	Calculus I	MATH 1170	4
X	X	X	X	X	X	MATH 1220	4	Calculus II	MATH 1175	4
	X				X	MATH 2210	3	Multivariable Calculus	MATH 2275	4
X	X	X			X	MATH 2250	4	Linear Algebra & Differential Equations	MATH 2240 + 3360	3+3
			X	X		MATH 2270	3	Linear Algebra	MATH2240	3
			X	X		MATH 2280	3	Ordinary Differential Equations	MATH 3360	3
			X			MATH 3310	3	Discrete Mathematics	MATH 2287	3
			X	X		MATH 5710	3	Introduction to Probability		
					X	PHYS 2200	2	Elements of Mechanics	PHYS 2211 + 2213	4+1
X	X	X	X	X		PHYS 2210 + 2215	4+1	General Physics - Science I	PHYS 2211 + 2213	4+1
			X	X	X	PHYS 2220 + 2225	4+1	General Physics - Science II	PHYS 2212 + 2214	4+1

*Series should be completed at one school.

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