

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

						USU		BSU		
						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	ENGR 320	3
X						BIOL 1610 (was 1210)	4	Biology I	BIOL 191	4
X						BIOL 3300	4	General Microbiology	BIOL 303	5
	X	X				CEE 1880	1	CEE Orientation & Computer Applications	ENGR 120	3
	X	X				CEE 2240	3	Engineering Surveying	CE 210 + 211	2+1
X	X	X				CEE 2870	2	Intro to Programming	COMPSCI 115	2
		X				CEE 2890	1	Sophomore Seminar - Environmental		
X	X	X			X	CHEM 1210	4	Principles of Chemistry I	CHEM 111 + 111L	4
X	X				X	CHEM 1215 (was 1230)	1	Principles of Chemistry Lab I	CHEM 111 + 111L	4
X						CHEM 2300	3	Principles of Organic Chemistry	CHEM 307	3
X						CHEM 2315 (was 2330)	1	Organic Chemistry Lab I	CHEM 308	2
X						CHEM 3700	3	Introduction to Biochemistry	CHEM 431	3
X						CHEM 3710	1	Introduction to Biochemistry Lab	CHEM 432	2
			X	X		CS 1400 (was 1700)*	3	Intro to Computer Science - CS 1	COMPSCI 125*	4
						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	COMPSCI 225*	4
			X			CS 2420 (was 2200)*	3	Algorithms & Data Structures - CS 3	COMPSCI 342*	4
			X			CS 3100	3	OS + Concurrency		
			X	X		ECE 1000 (was 1010)	2	Intro to Electrical & Computer Engineering	ENGR 120	3
			X	X		ECE 2250 (was 2270/2410)	4	Electrical Circuits		
			X	X		ECE 2700 (was 2530)	4	Digital Circuits	ECE 230 + 230L	3+1
X	X	X	X	X	X	ENGL 1010	3	Introduction to Writing	ENGL 101	3
X	X	X	X	X	X	ENGL 2010	3	Intermediate Writing	ENGL 102	3
X	X	X			X	ENGR 2010 (was 2000)	3	Engineering Mechanics - Statics	ENGR 210	3
X	X	X			X	ENGR 2030 (was 2020)	3	Engineering Mechanics - Dynamics	ENGR 220	3
	X	X			X	ENGR 2140 (was 2040)	3	Strength of Materials	ENGR 306	3
X	X	X				ENGR 2450 (was 2210)	3	Engineering Numerical Methods		
X	X				X	ENGR 2210 (was ETE)	3	Electrical Engineering for Non-majors	ENGR 240	3
X	X	X				ETE 2270	2	Computer Engineering Drafting	ME 105	2
	X	X				GEO 1110/1115	3+1	Dynamic Earth	GEOS 100	4
					X	MAE 1200	2	Engineering Graphics		
	X				X	MAE 2160 (was 2060)	3	Material Science	ENGR 245	3
	X				X	MAE 2165	1	Material Science Lab	ENGR 245L	1
					X	MAE 2200	3	Engineering Numerical Methods I		
	X	X			X	MAE 2300 (was 2400)	3	Thermodynamics I	ENGR 320	3
					X	MAE 2450 (was 2210)	3	Engineering Numerical Methods II		
X	X	X	X	X	X	MATH 1210	4	Calculus I	MATH 170	4
X	X	X	X	X	X	MATH 1220	4	Calculus II	MATH 175	4
	X				X	MATH 2210	3	Multivariable Calculus	MATH 275	4
X	X	X			X	MATH 2250	4	Linear Algebra & Differential Equations	MATH 333	4
			X	X		MATH 2270	3	Linear Algebra	MATH 301	3
			X	X		MATH 2280	3	Ordinary Differential Equations	MATH 433	3
			X			MATH 3310	3	Discrete Mathematics	MATH 387	4
			X	X		MATH 5710	3	Introduction to Probability	MATH 361	4
					X	PHYS 2200	2	Elements of Mechanics	PHYS 211 + 211L	4+1
X	X	X	X	X		PHYS 2210 + 2215	4+1	General Physics - Science I	PHYS 211 + 211L	4+1
			X	X	X	PHYS 2220 + 2225	4+1	General Physics - Science II	PHYS 212 + 212L	4+1

\*Series should be completed at one school.