

Required for USU Major						Articulation of Pre-engineering Courses between Boise State University and Utah State University current as of: 6/5/2009				
B I E	C I V I L	E N V I R	C O M P	E L E C T	M E C H					
						Course	Cr	Course Title	Course	Cr
X						BIE 1880	3	Quantitative Biological Systems		
X						BIE 2330	3	Properties of Biomaterials		
X						BIE 2400	3	Biological Thermodynamics	ENGR 320	3
X						BIOL 1610 (was 1210)	4	Biology I	BIOL 191	4
X		X				BIOL 3300	4	General Microbiology	BIOL 303	4
	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					CEE 2870	1	Sophomore Seminar - Civil	ENGR 120	3
		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
			X	X		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	ECE 225 + 225L	3
			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						ENGR 1000 (was 1010)	2	Introduction to Engineering Design	ENGR 120	3
X	X	X			X	ENGR 2010 (was 2000)	2	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)	2	Strength of Materials	ENGR 306	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	ENGR 240	3
X	X	X				ETE 2270	2	Computer Engineering Drafting	ME 105	2
	X	X				GEO 1110 (was 1150)	4	Dynamic Earth	GEOS 100	4
					X	MAE 1200	2	Engineering Graphics		
	X				X	MAE 2160 (was 2060)	3	Material Science	ENGR 245	3
					X	MAE 2200	2	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	MAE 2650 (was 2600)	3	Manufacturing Processes		
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	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	4
			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	X	X			X	PHYS 2200	2	Elements of Mechanics	PHYS 211 + 211L	4+1
			X	X		PHYS 2210	4	General Physics - Science I	PHYS 211 + 211L	4+1
	X	X	X	X	X	PHYS 2220	4	General Physics - Science II	PHYS 212 + 212L	4+1

*Series should be completed at one school.