

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

USU							Utah		
					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 2300	2
X					BIOL 1610 (was 1210)	4	Biology I		
X					BIOL 3300	4	General Microbiology	BIOL 3210	4
	X	X			CEE 1880	1	CEE Orientation & Computer Applications	CVEEN 1000	2
	X	X			CEE 2240	3	Engineering Surveying	CVEEN 2240	3
X	X	X			CEE 2870	2	Intro to Programming		
		X			CEE 2890	1	Sophomore Seminar - Environmental		
X	X	X		X	CHEM 1210	4	Principles of Chemistry I	CHEM 1210	4
X	X			X	CHEM 1215 (was 1230)	1	Principles of Chemistry Lab I	CHEM 1215	1
X					CHEM 2300	3	Principles of Organic Chemistry	CHEM 2310	4
X					CHEM 2315 (was 2330)	1	Organic Chemistry Lab I	CHEM 2315	1
X					CHEM 3700	3	Introduction to Biochemistry	CHEM 3510	3
X					CHEM 3710	1	Introduction to Biochemistry Lab	CHEM 3515	2
			X	X	CS 1400 (was 1700)*	3	Intro to Computer Science - CS 1	CS 1400*	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	CS1410*	4
			X		CS 2420 (was 2200)*	3	Algorithms & Data Structures - CS 3	CS 2420*	4
			X		CS 3100	3	OS + Concurrency		
			X	X	ECE 1000 (was 1010)	2	Intro to Electrical & Computer Engineering		
			X	X	ECE 2250 (was 2270/2410)	4	Electrical Circuits	See Advisor	4
			X	X	ECE 2700 (was 2530)	4	Digital Circuits	ECE/CS 3700	4
X	X	X	X	X	ENGL 1010	3	Introduction to Writing	WRTG 1010	3
X	X	X	X	X	ENGL 2010	3	Intermediate Writing	WRTG 2010	3
X	X	X		X	ENGR 2010 (was 2000)	3	Engineering Mechanics - Statics	CVEEN 2010	3
X	X	X		X	ENGR 2030 (was 2020)	3	Engineering Mechanics - Dynamics	MEEN 2080	4
	X	X		X	ENGR 2140 (was 2040)	3	Strength of Materials	CVEEN 2140	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	ECE 2210	3
X	X	X			ETE 2270	2	Computer Engineering Drafting		
	X	X			GEO 1110/1115	3+1	Dynamic Earth	GEO 1110+1115	3+1
				X	MAE 1200	2	Engineering Graphics		
	X			X	MAE 2160 (was 2060)	3	Material Science	MSE 2160	3
	X			X	MAE 2165	1	Material Science Lab		
				X	MAE 2200	3	Engineering Numerical Methods I		
	X	X		X	MAE 2300 (was 2400)	3	Thermodynamics I		
				X	MAE 2450 (was 2210)	3	Engineering Numerical Methods II		
X	X	X	X	X	MATH 1210	4	Calculus I	MATH 1210	4
X	X	X	X	X	MATH 1220	4	Calculus II	MATH 1220+2210	4+3
	X			X	MATH 2210	3	Multivariable Calculus	MATH 2210	3
X	X	X		X	MATH 2250	4	Linear Algebra & Differential Equations	MATH 2250	4
			X	X	MATH 2270	3	Linear Algebra	MATH 2270	3
			X	X	MATH 2280	3	Ordinary Differential Equations	MATH 2280	4
			X		MATH 3310	3	Discrete Mathematics	CS 2100	3
			X	X	MATH 5710	3	Introduction to Probability	MATH 5010	3
				X	PHYS 2200	2	Elements of Mechanics	PHYS 2210+2215	4+1
X	X	X	X	X	PHYS 2210 + 2215	4+1	General Physics - Science I	PHYS 2210+2215	4+1
			X	X	PHYS 2220 + 2225	4+1	General Physics - Science II	PHYS 2220+2225	4+1

*Series should be completed at one school.