

Required for USU Major							Articulation of Pre-engineering Courses between Utah Valley State University and Utah State University current as of: 6/5/2009				
B	C	E	C	E	M		USU			UVSC	
I	V	N	O	L	E		Course	Cr	Course Title	Course	Cr
E	I	V	M	E	C	H					
L	L	I	P	C	H						
X							BIE 1880	3	Quantitative Biological Systems		
X							BIE 2330	3	Properties of Biomaterials		
X							BIE 2400	3	Biological Thermodynamics	ENGR 2300	3
X							BIOL 1610 (was 1210)	4	Biology I	Biol 1610+1615	4+1
X		X					BIOL 3300	4	General Microbiology	Micr 3450	4
	X	X					CEE 1880	1	CEE Orientation & Computer Applications		
	X	X					CEE 2240	3	Engineering Surveying	EGDT 1400	4
	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 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 3600	3
X							CHEM 3710	1	Introduction to Biochemistry Lab	Chem 3605	1
			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	CS 1410*	3
			X				CS 2420 (was 2200)	3	Algorithms & Data Structures - CS 3	CS 2420*	3
			X				CS 3100	3	OS + Concurrency	CS 3060	3
			X	X			ECE 1000 (was 1010)	2	Intro to Electrical & Computer Engineering	ENGR 1000	3
			X	X			ECE 2250 (was 2270/2410)	4	Electrical Circuits	EENG 2250	4
			X	X			ECE 2700 (was 2530)	4	Digital Circuits	EENG 2700	4
X	X	X	X	X	X	X	ENGL 1010	3	Introduction to Writing	Engl 1010	3
X	X	X	X	X	X	X	ENGL 2010	3	Intermediate Writing	Engl 2020	3
X							ENGR 1000 (was 1010)	2	Introduction to Engineering Design	Engr 1000	3
X	X	X				X	ENGR 2010 (was 2000)	2	Engineering Mechanics - Statics	Engr 2010	3
X	X	X				X	ENGR 2030 (was 2020)	3	Engineering Mechanics - Dynamics	Engr 2030	3
	X	X				X	ENGR 2140 (was 2040)	2	Strength of Materials	Engr 2140	3
X	X	X					ENGR 2450 (was 2210)	2	Engineering Numerical Methods	Engr 2450	3
X	X					X	ETE 2210 (was 2200)	4	Electrical Engineering for Non-majors	EENG 2210+2215	3+1
X	X	X					ETE 2270	2	Computer Engineering Drafting	EGDT 1040	3
	X	X					GEO 1110 (was 1150)	4	Dynamic Earth	GEO 1010+1015	3+1
						X	MAE 1200	2	Engineering Graphics		
	X					X	MAE 2160 (was 2060)	3	Material Science		
						X	MAE 2200	2	Engineering Numerical Methods I		
	X	X				X	MAE 2300 (was 2400)	3	Thermodynamics I	ENGR 2300	3
						X	MAE 2450 (was 2210)	3	Engineering Numerical Methods II	ENGR 2450	3
						X	MAE 2650 (was 2600)	3	Manufacturing Processes		
X	X	X	X	X	X	X	MATH 1210	4	Calculus I	Math 1210	5
X	X	X	X	X	X	X	MATH 1220	4	Calculus II	Math 1220	5
	X					X	MATH 2210	3	Multivariable Calculus	Math 2210	3
X	X	X				X	MATH 2250	4	Linear Algebra & Differential Equations	Math 2270+2280	3+3
			X	X			MATH 2270	3	Linear Algebra	Math 2270	3
			X	X			MATH 2280	3	Ordinary Differential Equations	Math 2280	3
			X				MATH 3310	3	Discrete Mathematics	CS 2300	3
			X	X			MATH 5710	3	Introduction to Probability		
X	X	X				X	PHYS 2200	2	Elements of Mechanics	Phys 2210+2215	4+1
			X	X			PHYS 2210	4	General Physics - Science I	Phys 2210+2215	4+1
	X	X	X	X	X	X	PHYS 2220	4	General Physics - Science II	Phys 2220+2225	4+1

\*Series should be completed at one school.