

Required for USU Major						Articulation of Pre-engineering Courses between Idaho State University and Utah State University current as of: 6/5/2009				
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					
L	I	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 307	3
X						BIOL 1610 (was 1210)	4	Biology I	BIOL 101 + 101L	4
X		X				BIOL 3300	4	General Microbiology	BIOL 235	4
	X	X				CEE 1880	1	CEE Orientation & Computer Applications		
	X	X				CEE 2240	3	Engineering Surveying	CE 301	3
	X					CEE 2870	1	Sophomore Seminar - Civil		
	X	X				CEE 2890	1	Sophomore Seminar - Environmental		
X	X	X			X	CHEM 1210	4	Principles of Chemistry I	CHEM 111	5
X	X				X	CHEM 1215 (was 1230)	1	Principles of Chemistry Lab I	CHEM 111	5
X						CHEM 2300	3	Principles of Organic Chemistry	CHEM 301	3
X						CHEM 2315 (was 2330)	1	Organic Chemistry Lab I	CHEM 303	1
X						CHEM 3700	3	Introduction to Biochemistry	BIOL 445	3
X						CHEM 3710	1	Introduction to Biochemistry Lab		
			X	X		CS 1400 (was 1700)	3	Intro to Computer Science - CS 1	CS 181 * + 181L	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 182 * + 182L	2+1
			X			CS 2420 (was 2200)	3	Algorithms & Data Structures - CS 3	CS 385 *	3
			X			CS 3100	3	OS + Concurrency		
			X	X		ECE 1000 (was 1010)	2	Intro to Electrical & Computer Engineering	ENGR 240	3
			X	X		ECE 2250 (was 2270/2410)	4	Electrical Circuits	ENGR 340 + 342	3+1
			X	X		ECE 2700 (was 2530)	4	Digital Circuits	EE 274 + 275	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	2
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 350	3
X	X	X				ENGR 2450 (was 2210)	2	Engineering Numerical Methods	ENGR 364	3
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	ENGR 105	2
	X	X				GEO 1110 (was 1150)	4	Dynamic Earth	GEOL 101 + 110	3+1
					X	MAE 1200	2	Engineering Graphics	ME 105	3
	X				X	MAE 2160 (was 2060)	3	Material Science	ENGR 223	3
					X	MAE 2200	2	Engineering Numerical Methods I		
	X	X			X	MAE 2300 (was 2400)	3	Thermodynamics I	ENGR 307	3
					X	MAE 2450 (was 2210)	3	Engineering Numerical Methods II	ENGR 364	3
					X	MAE 2650 (was 2600)	3	Manufacturing Processes	ME 353	3
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 330 + 360	3+3
			X	X		MATH 2270	3	Linear Algebra	MATH 330	3
			X	X		MATH 2280	3	Ordinary Differential Equations	MATH 360	3
			X			MATH 3310	3	Discrete Mathematics	MATH 287	3
			X	X		MATH 5710	3	Introduction to Probability		
X	X	X			X	PHYS 2200	2	Elements of Mechanics	PHYS 211 + 213	4+1
			X	X		PHYS 2210	4	General Physics - Science I	PHYS 211 + 213	4+1
	X	X	X	X	X	PHYS 2220	4	General Physics - Science II	PHYS 212 + 214	4+1

*Series should be completed at one school.