

DSU

USU

Required by USU Major

Course	Cr	Course	Cr	Course Title	BE ⁵	CI ⁵	EN ⁵	CS ⁵	CM ⁵	EL ⁵	ME ⁵
No Equivalent		BENG 1880	3	Quantitative Biological Systems	X						
No Equivalent		BENG 2330	3	Properties of Biomaterials	X						
ENGR 2300	3	BENG 2400	3	Biological Thermodynamics	X		X				
BIOL 1010	3	BIOL 1010	3	Biology and the Citizen		X	X	X			
BIOL 1610 +1615	4+1	BIOL 1610 + 1615	3+1	Biology I	X						
BIOL 3450+3455	3+1	BIOL 3300	4	General Microbiology	X						
No Equivalent		CEE 1880	1	CEE Orientation & Computer Applications		X	X				
No Equivalent		CEE 2240	3	Engineering Surveying		X	X				
CHEM 1210+1215	4+1	CHEM 1210+1215	4+1	Principles of Chemistry I + Lab I	X	X	X	X ⁴			X
CHEM 1220+1225	4+1	CHEM 1220+1225	4+1	Principles of Chemistry II + Lab II			X	X ⁴			
CHEM 2310	4	CHEM 2300	3	Principles of Organic Chemistry	X		X				
CHEM 2315	1	CHEM 2315	1	Organic Chemistry Lab I	X						
No Equivalent		CHEM 3700	3	Introduction to Biochemistry	X						
No Equivalent		CHEM 3710	1	Introduction to Biochemistry Lab	X						
CS 1400 ^{1,2}	3	CS 1400	4	Intro to Computer Science - CS 1	X	X	X	X	X ²	X ²	X ²
CS 1410 ¹	3	CS 1410	3	Intro to Computer Science - CS 2				X	X	X	
CS 2420 ¹	3	CS 2420	3	Algorithms & Data Structures - CS 3				X	X		
No Equivalent		CS 2410	3	Intro to Event-driven Programming & GUIs				X			
No Equivalent		CS 2610	3	Developing Web Applications				X			
No Equivalent		CS 3000	1	Undergraduate Seminar				X			
CS 3400	3	CS 3100	3	OS + Concurrency				X	X		
No Equivalent		CS 3810	3	Organization & Architecture				X			
ENGR 2250+2255	3 + 1	ECE 2250	3	Electrical Circuits I					X	X	
No Equivalent		ECE 2290	3	Electrical Circuits II					X	X	
No Equivalent		ECE 2700	4	Digital Circuits					X	X	
ENGL 1010	3	ENGL 1010	3	Introduction to Writing	X	X	X	X	X	X	X
ENGL 2010	3	ENGL 2010	3	Intermediate Writing	X	X	X	X	X	X	X
ENGR 2010	3	ENGR 2010	3	Engineering Mechanics - Statics	X	X	X				X
ENGR 2030	3	ENGR 2030	3	Engineering Mechanics - Dynamics		X	X				X
ENGR 2140	3	ENGR 2140	3	Mechanics of Materials	X	X					X
No Equivalent		ENGR 2450	3	Engineering Numerical Methods	X						
No Equivalent		ENGR 2210	3	Fundamental Electronics	X	X ³					X
No Equivalent		ENGR 2270	2	Computer Engineering Drafting	X	X	X				
GEO 1110 + 1115	3+1	GEO 1110+1115	3+1	Dynamic Earth		X					
No Equivalent		MAE 1200	2	Engineering Graphics							X
No Equivalent		MAE 2160	3	Material Science							X
No Equivalent		MAE 2165	1	Material Science Lab							X
ENGR 2300	3	MAE 2300	3	Thermodynamics I		X ³					X
MATH 1210	4	MATH 1210	4	Calculus I	X	X	X	X	X	X	X
MATH 1220	4	MATH 1220	4	Calculus II	X	X	X	X	X	X	X
MATH 2210	4	MATH 2210	3	Multivariable Calculus		X				X	X
MATH 2270+2280	3+3	MATH 2250	4	Linear Algebra & Differential Equations	X	X	X				X
MATH 2270	3	MATH 2270	3	Linear Algebra				X	X	X	
MATH 2280	3	MATH 2280	3	Ordinary Differential Equations					X	X	
MATH 2200	3	MATH 3310	3	Discrete Mathematics				X	X		
No Equivalent		MATH 5710	3	Introduction to Probability							X
PHYS 2210 + 2215	4 + 1	PHYS 2210 + 2215	4+1	General Physics - Science I	X	X	X	X ⁴	X	X	X
PHYS 2220 + 2225	4 + 1	PHYS 2220 + 2225	4+1	General Physics - Science II				X ⁴	X	X	X

¹Series should be completed at one school (dixie.edu).

²Mechanical Engineering requires C++ or C can be acceptable. Electrical/Computer Engineering requires C++.

³Civil Engineering students can choose one out of ENGR 2210 and MAE 2300.

⁴Computer Science students can choose either PHYS 2210&2220 or CHEM 1210&1220.

⁵BE= Biological Engineering, CI = Civil Engineering, EN = Environmental Engineering, CS = Computer Science, CM = Computer Engineering, EL = Electrical Engineering, ME = Mechanical Engineering.

Additional classes may be acceptable for the professional program. Contact USU for more information.

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