

UofU

USU

Required by USU Major

Course	Cr	Course	Cr	Course Title	BE ⁶	CI ⁶	EN ⁶	CS ⁶	CM ⁶	EL ⁶	ME ⁶
No Equivalent		BENG 1880	3	Quantitative Biological Systems	X						
No Equivalent		BENG 2330	3	Properties of Biomaterials	X						
No Equivalent		BENG 2400	3	Biological Thermodynamics	X		X				
BIOL 1010	3	BIOL 1010	3	Biology and the Citizen		X	X	X			
BIOL 2010+2015+2020	3+2+3	BIOL 1610 + 1615	3+1	Biology I	X						
No Equivalent		BIOL 3300	4	General Microbiology	X						
CVEEN 1000	2	CEE 1880	1	CEE Orientation & Computer Applications		X	X				
MGEN 2400	3	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	2	CHEM 2315	1	Organic Chemistry Lab I	X						
CHEM 3510	3	CHEM 3700	3	Introduction to Biochemistry	X						
CHEM 3515	3	CHEM 3710	1	Introduction to Biochemistry Lab	X						
See Advisor		CS 1400	4	Intro to Computer Science - CS 1		X	X	X	X ²	X ²	X ²
CS 1410 ¹	4	CS 1410	3	Intro to Computer Science - CS 2				X	X	X	
CS 2420 ¹	4	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 4400	4	CS 3100	3	OS + Concurrency				X	X		
No Equivalent		CS 3810	3	Organization & Architecture				X			
See Advisor	4	ECE 2250	3	Electrical Circuits I					X	X	
No Equivalent		ECE 2290	3	Electrical Circuits II					X	X	
ECE 3700	4	ECE 2700	4	Digital Circuits					X	X	
WRTG 1010	3	ENGL 1010	3	Introduction to Writing	X	X	X	X	X	X	X
WRTG 2010	3	ENGL 2010	3	Intermediate Writing	X	X	X	X	X	X	X
ME EN-or-CVEEN 2010	3	ENGR 2010	3	Engineering Mechanics - Statics	X	X	X				X
ME EN 2030	4	ENGR 2030	3	Engineering Mechanics - Dynamics		X	X				X
CVEEN 2140	3	ENGR 2140	3	Mechanics of Materials	X	X					X
ME EN 2450	2	ENGR 2450	3	Engineering Numerical Methods	X				X	X	
ECE 2210	3	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
MSE 2160	3	MAE 2160	3	Material Science							X
No Equivalent		MAE 2165	1	Material Science Lab							X
ME EN 3610	4	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 ¹	4	MATH 1220	4	Calculus II	X	X	X	X	X	X	X
MATH 2210 ¹	3	MATH 2210	3	Multivariable Calculus		X				X	X
MATH 2250	4	MATH 2250	4	Linear Algebra & Differential Equations	X	X	X				X
MATH 2270	4	MATH 2270	3	Linear Algebra				X	X	X	
MATH 2280	4	MATH 2280	3	Ordinary Differential Equations					X	X	
CS 2100 ⁵	3	MATH 3310	3	Discrete Mathematics				X ⁵	X ⁵		
MATH 5010	3	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 (utah.edu).

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

³Civil Engineering students can choose either ENGR 2210 or MAE 2300.

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

⁵CS 2100 will be counted for credit at USU for Computer Science Students only.

⁶BE = 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.

ACADEMIC YEAR 2017 - 18