

BSU

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
<i>No Equivalent</i>		BENG 1880	3	Quantitative Biological Systems	X						
<i>No Equivalent</i>		BENG 2330	3	Properties of Biomaterials	X						
ENGR 320	3	BENG 2400	3	Biological Thermodynamics	X		X				
BIOL 100	4	BIOL 1010	3	Biology and the Citizen		X	X	X			
BIOL 191 + 192	4	BIOL 1610 + 1615	3+1	Biology I	X						
BIOL 303	5	BIOL 3300	4	General Microbiology	X						
ENGR 120	3	CEE 1880	1	CEE Orientation & Computer Applications		X	X				
CE 210 + 211	2+1	CEE 2240	3	Engineering Surveying		X	X				
CHEM 111 + 111L ¹	3+1	CHEM 1210+1215	4+1	Principles of Chemistry I + Lab I	X	X	X	X ⁴			X
CHEM 112 + 112L ¹	3+1	CHEM 1220+1225	4+1	Principles of Chemistry II + Lab II			X	X ⁴			
CHEM 307	3	CHEM 2300	3	Principles of Organic Chemistry	X		X				
CHEM 308	2	CHEM 2315	1	Organic Chemistry Lab I	X						
CHEM 431	3	CHEM 3700	3	Introduction to Biochemistry	X						
CHEM 432	2	CHEM 3710	1	Introduction to Biochemistry Lab	X						
CS 121 + 121L ^{1,2}	3	CS 1400	4	Intro to Computer Science - CS 1	X	X	X	X	X ²	X ²	X ²
CS 221 ¹	3	CS 1410	3	Intro to Computer Science - CS 2				X	X	X	
CS 321 ¹	3	CS 2420	3	Algorithms & Data Structures - CS 3				X	X		
COMPSCI 119 + 221	2+2	CS 2410	3	Intro to Event-driven Programming & GUIs				X			
CS 401	3	CS 2610	3	Developing Web Applications				X			
<i>No Equivalent</i>		CS 3000	1	Undergraduate Seminar				X			
CS 453	3	CS 3100	3	OS + Concurrency				X	X		
CS 441	3	CS 3810	3	Organization & Architecture				X			
ECE 210	3	ECE 2250	3	Electrical Circuits I					X	X	
ECE 212+212L	3+1	ECE 2290	3	Electrical Circuits II					X	X	
ECE 230 + 230L	3+1	ECE 2700	4	Digital Circuits					X	X	
ENGL 101	3	ENGL 1010	3	Introduction to Writing	X	X	X	X	X	X	X
ENGL 102	3	ENGL 2010	3	Intermediate Writing	X	X	X	X	X	X	X
ENGR 210	3	ENGR 2010	3	Engineering Mechanics - Statics	X	X	X				X
ENGR 220	3	ENGR 2030	3	Engineering Mechanics - Dynamics		X	X				X
ENGR 350	3	ENGR 2140	3	Mechanics of Materials	X	X					X
<i>No Equivalent</i>		ENGR 2450	3	Engineering Numerical Methods	X						
ENGR 240	3	ENGR 2210	3	Fundamental Electronics	X	X ³					X
ME 105	3	ENGR 2270	2	Computer Engineering Drafting	X	X	X				
GEOS 100	4	GEO 1110+1115	3+1	Dynamic Earth		X					
<i>No Equivalent</i>		MAE 1200	2	Engineering Graphics							X
MSE 245	3	MAE 2160	3	Material Science							X
MSE 245L	1	MAE 2165	1	Material Science Lab							X
ENGR 320	3	MAE 2300	3	Thermodynamics I		X ³					X
MATH 170	4	MATH 1210	4	Calculus I	X	X	X	X	X	X	X
MATH 175 ¹	4	MATH 1220	4	Calculus II	X	X	X	X	X	X	X
MATH 275 ¹	4	MATH 2210	3	Multivariable Calculus		X				X	X
MATH 333	4	MATH 2250	4	Linear Algebra & Differential Equations	X	X	X				X
MATH 301	3	MATH 2270	3	Linear Algebra				X	X	X	
MATH 433	3	MATH 2280	3	Ordinary Differential Equations					X	X	
MATH 387	4	MATH 3310	3	Discrete Mathematics				X	X		
MATH 361	4	MATH 5710	3	Introduction to Probability						X	
PHYS 211 + 211L ¹	4+1	PHYS 2210 + 2215	4+1	General Physics - Science I	X	X	X	X ⁴	X	X	X
PHYS 212 + 212L ¹	4+1	PHYS 2220 + 2225	4+1	General Physics - Science II				X ⁴	X	X	X

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

²Mechanical, Electrical, and Computer Engineering requires C++, C or C# will be evaluated on a case by case basis.

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.

ACADEMIC YEAR 2017 - 18