

### WSU

### USU

### Required by USU Major

Course	Cr	Course	Cr	Course Title	BE <sup>5</sup>	CI <sup>5</sup>	EN <sup>5</sup>	CS <sup>5</sup>	CM <sup>5</sup>	EL <sup>5</sup>	ME <sup>5</sup>
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				
No Equivalent		BIOL 1010	3	Biology and the Citizen		X	X	X			
No Equivalent		BIOL 1610 + 1615	3+1	Biology I	X						
No Equivalent		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	5	CHEM 1210+1215	4+1	Principles of Chemistry I + Lab I	X	X	X	X <sup>4</sup>			X
CHEM 1220+1225	5	CHEM 1220+1225	4+1	Principles of Chemistry II + Lab II			X	X <sup>4</sup>			
CHEM 2310	4	CHEM 2300	3	Principles of Organic Chemistry	X		X				
CHEM 2315	1	CHEM 2315	1	Organic Chemistry Lab I	X						
CHEM 3070	3	CHEM 3700	3	Introduction to Biochemistry	X						
CHEM 3075	1	CHEM 3710	1	Introduction to Biochemistry Lab	X						
CS 1400 <sup>1,2</sup>	4	CS 1400	4	Intro to Computer Science - CS 1		X	X	X	X <sup>2</sup>	X <sup>2</sup>	X <sup>2</sup>
CS 1410 <sup>1</sup>	4	CS 1410	3	Intro to Computer Science - CS 2				X	X	X	
CS 2420 <sup>1</sup>	4	CS 2420	3	Algorithms & Data Structures - CS 3				X	X		
No Equivalent		CS 2410	3	Intro to Event-driven Programming & GUIs				X			
CS 2350	4	CS 2610	3	Developing Web Applications				X			
No Equivalent		CS 3000	1	Undergraduate Seminar				X			
CS 3100	4	CS 3100	3	OS + Concurrency				X	X		
No Equivalent		CS 3810	3	Organization & Architecture				X			
ECE 1270	4	ECE 2250	3	Electrical Circuits I					X	X	
ECE 2260	4	ECE 2290	3	Electrical Circuits II					X	X	
ECE 2700	4	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 2080	4	ENGR 2030	3	Engineering Mechanics - Dynamics		X	X				X
ENGR 2140	3	ENGR 2140	3	Mechanics of Materials	X	X					X
MATH 4620	3	ENGR 2450	3	Engineering Numerical Methods	X						
ENGR 2210	4	ENGR 2210	3	Fundamental Electronics	X	X <sup>3</sup>					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
ENGR 2160	3	MAE 2160	3	Material Science							X
No Equivalent		MAE 2165	1	Material Science Lab							X
ENGR 2300	3	MAE 2300	3	Thermodynamics I		X <sup>3</sup>					X
MATH 1210	4	MATH 1210	4	Calculus I	X	X	X	X	X	X	X
MATH 1220 <sup>1</sup>	4	MATH 1220	4	Calculus II	X	X	X	X	X	X	X
MATH 2210 <sup>1</sup>	4	MATH 2210	3	Multivariable Calculus		X				X	X
MATH 2250	4	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	
No Equivalent		MATH 3310	3	Discrete Mathematics				X	X		
MATH 3410	3	MATH 5710	3	Introduction to Probability							X
PHYS 2210	5	PHYS 2210 + 2215	4+1	General Physics - Science I	X	X	X	X <sup>4</sup>	X	X	X
PHYS 2220	5	PHYS 2220 + 2225	4+1	General Physics - Science II				X <sup>4</sup>	X	X	X

<sup>1</sup>Series should be completed at one school (weber.edu).

<sup>2</sup>Mechanical Engineering requires C++ or C. Electrical/Computer Engineering requires C++.

<sup>3</sup>Civil Engineering students can choose one out of ENGR 2210 and MAE 2300.

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

<sup>5</sup>BE= 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