



Required by USU Major

UTU		USU		Required by USU Major						
Course	Cr	Course	Cr	Course Title	BE ⁵	CI ⁵	EN ⁵	CM ⁵	EL ⁵	ME ⁵
MECH 1000	3	BENG 1200	2	SolidWorks	X					
<i>No Equivalent</i>		BENG 1880	3	Quantitative Biological Processes	X					
<i>No Equivalent</i>		BENG 2330	3	Properties of Biological Materials	X					
MECH 3600	4	BENG 2400	3	Biological/Environmental Thermodynamics	X		X			
BIOL 1010	3	BIOL 1010	3	Biology and the Citizen		X	X			
BIOL 1610 + 1615	4+1	BIOL 1610 + 1615	3+1	Biology I + Lab	X					
BIOL 3450 + 3455	3+1	BIOL 3300	4	General Microbiology	X					
CS 1400	3	CEE 1400	2	Introduction to Computer Programming		X	X			
<i>No Equivalent</i>		CEE 1880	1	Orientation & Computer Applications		X	X			
<i>No Equivalent</i>		CEE 2240	3	Engineering Surveying		X	X			
<i>No Equivalent</i>		CEE 2270	2	Computer Engineering Drafting		X	X			
CHEM 1210	4	CHEM 1210	4	Principles of Chemistry I	X	X	X			X
CHEM 1215	1	CHEM 1215	1	Chemical Principles Lab I	X	X	X			X
CHEM 1220	4	CHEM 1220	4	Principles of Chemistry II			X			
CHEM 1225	1	CHEM 1225	1	Chemical Principles Lab II			X			
CHEM 2310	4	CHEM 2300	3	Principles of Organic Chemistry	X		X			
CHEM 2315	1	CHEM 2315	1	Organic Chemistry Lab I	X					
<i>No Equivalent</i>		CHEM 3700 + 3710	3+1	Introductory Biochemistry + Lab	X					
CS 1400	3	CS 1400	4	Intro to Computer Science - CS I	X	X	X			X
CS 2420	3	CS 2420	3	Algorithms & Data Structures - CS 3				X		
See Advisor		ECE 1400	4	Computer Programming I				X ¹	X ¹	
See Advisor		ECE 1410	3	Computer Programming II				X	X	
MECH 2210	3	ECE 2250	3	Electrical Circuits 1				X	X	
<i>No Equivalent</i>		ECE 2290	3	Electrical Circuits 2				X	X	
ECE 2700 + 2705	3+1	ECE 2700	4	Digital Circuits				X	X	
ENGL 1010	3	ENGL 1010	3	Introduction to Writing: Academic Prose	X	X	X	X	X	X
ENGL 2010	3	ENGL 2010	3	Intermediate Writing: Research Writing	X	X	X	X	X	X
MECH 2010	3	ENGR 2010	3	Engineering Mechanics Statics	X	X	X			X
MECH 2030	3	ENGR 2030	3	Engineering Mechanics Dynamics		X	X			X
MECH 3300	3	ENGR 2140	3	Mechanics of Materials	X	X				X
MECH 2210	3	ENGR 2210	3	Fundamental Electronics	X	X ²				X
MATH 4250	4	ENGR 2450	3	Numerical Methods	X					
GEO 1110	3	GEO 1110	3	Physical Geology		X				
GEO 1115	1	GEO 1115	1	Physical Geology Lab		X				
<i>No Equivalent</i>		MAE 1010	3	Introduction to Mechanical Engineering						X
MECH 1000	3	MAE 1200	2	Engineering Graphics	X					X
MECH 2160	3	MAE 2160	3	Material Science						X
<i>No Equivalent</i>		MAE 2165	1	Material Science Lab						X
MECH 3600	4	MAE 2300	3	Thermodynamics I		X ²	X			X
MATH 4250	4	MAE 2450	3	Engineering Numerical Methods						X
MATH 1210	4	MATH 1210	4	Calculus I	X	X	X	X	X	X
MATH 1220	4	MATH 1220	4	Calculus II	X	X	X	X	X	X
MATH 2210	4	MATH 2210	3	Multivariable Calculus		X			X	X
MATH 2250 ⁴	4	MATH 2250	4	Linear Algebra & Differential Equations	X	X	X			X
MATH 2270	3	MATH 2270	3	Linear Algebra				X	X	
MATH 2280	3	MATH 2280	3	Ordinary Differential Equations				X	X	
<i>No Equivalent</i>		MATH 3310	3	Discrete Mathematics				X		
<i>No Equivalent</i>		MATH 5710	3	Introduction to Probability				X ³	X	
PHYS 2210	4	PHYS 2210	4	Physics for Scientists and Engineers I	X	X	X	X	X	X
PHYS 2215	1	PHYS 2215	1	Physics for Scientists and Engineers Lab I	X	X	X	X	X	X
PHYS 2220	4	PHYS 2220	4	Physics for Scientists and Engineers II				X	X	X
PHYS 2225	1	PHYS 2225	1	Physics for Scientists and Engineers Lab II				X	X	X
<i>No Equivalent</i>		STAT 3000	3	Statistics for Scientists	X		X	X ³		

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¹Electrical and Computer Engineering requires C++. C will be evaluated on a case by case basis.

²Civil Engineering students can choose one out of ENGR 2210 and MAE 2300.

³Computer Engineering students can choose one out of MATH 5710 and STAT 3000.

⁴Courses that count for MATH 2270 and MATH 2280 can be combined to fulfill the credit for MATH 2250.
(MATH 2270 + MATH 2280 = MATH 2250).

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

ACADEMIC YEAR

2022-23

Your courses may transfer as listed. Additional classes may be acceptable for the professional program. Contact USU for more information.