



WSU

USU

Required by USU Major

| Course | Cr | Course | Cr | Course Title | BE ⁵ | CI ⁵ | EN ⁵ | CM ⁵ | EL ⁵ | ME ⁵ |
|------------------------|--------|------------------|-----|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| MFET 3460 or PDD 1010 | 2 3 | BENG 1200 | 2 | SolidWorks | X | | | | | |
| No Equivalent | | BENG 1880 | 3 | Quantitative Biological Processes | X | | | | | |
| No Equivalent | | BENG 2330 | 3 | Properties of Biological Materials | X | | | | | |
| ENGR 2300 | 4 | BENG 2400 | 3 | Biological/Environmental Thermodynamics | X | | X | | | |
| ZOOL 1370 | 3 | BIOL 1010 | 3 | Biology and the Citizen | | X | X | | | |
| ZOOL 1110 + 2220 | 4+4 | BIOL 1610 + 1615 | 3+1 | Biology I + Lab | X | | | | | |
| No Equivalent | | BIOL 3300 | 4 | General Microbiology | X | | | | | |
| CS 1400 | 4 | CEE 1400 | 2 | Introduction to Computer Programming | | X | X | | | |
| No Equivalent | | CEE 1880 | 1 | Orientation & Computer Applications | | X | X | | | |
| No Equivalent | | CEE 2240 | 3 | Engineering Surveying | | X | X | | | |
| No Equivalent | | 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 | | | | | |
| CHEM 3070 | 3 | CHEM 3700 | 3 | Introductory Biochemistry | X | | | | | |
| CHEM 3075 | 1 | CHEM 3710 | 1 | Introductory Biochemistry Lab | X | | | | | |
| CS 1400 | 4 | CS 1400 | 4 | Intro to Computer Science - CS I | X | X | X | | | X |
| CS 2420 | 4 | 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 | |
| ECE 1270 | 4 | ECE 2250 | 3 | Electrical Circuits 1 | | | | X | X | |
| ECE 2260 | 4 | ECE 2290 | 3 | Electrical Circuits 2 | | | | X | X | |
| ECE 2700 | 4 | 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 |
| ENGR 2010 | 3 | ENGR 2010 | 3 | Engineering Mechanics Statics | X | X | X | | | X |
| ENGR 2030 | 4 | ENGR 2030 | 3 | Engineering Mechanics Dynamics | | X | X | | | X |
| ENGR 2140 | 3 | ENGR 2140 | 3 | Mechanics of Materials | X | X | | | | X |
| ECE 2210 | 4 | ENGR 2210 | 3 | Fundamental Electronics | X | X ² | | | | X |
| ME 3500 | 3 | 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 | | | | |
| No Equivalent | | MAE 1010 | 3 | Introduction to Mechanical Engineering | | | | | | X |
| MFET 3460 or PDD 1010 | 2 3 | MAE 1200 | 2 | Engineering Graphics | X | | | | | X |
| ENGR 2160 | 4 | MAE 2160 + 2165 | 3+1 | Material Science + Lab | | | | | | X |
| ENGR 2300 | 4 | MAE 2300 | 3 | Thermodynamics I | | X ² | X | | | X |
| ME 3500 | 3 | 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 | |
| No Equivalent | | MATH 3310 | 3 | Discrete Mathematics | | | | X | | |
| No Equivalent | | MATH 5710 | 3 | Introduction to Probability | | | | X ³ | X | |
| PHYS 2210 | 5 | 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 |

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|----------------------|---|-----------|---|---|---|--|---|----------------|---|---|
| PHYS 2220 | 5 | 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 | | |

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.