

| Mechanical Engineering 2022-23 mech.utah.edu/academics | Year 1 | | Year 2 | | Year 3 | | Year 4 | | |
|--|---|--|---|--|---|--|---|---|-----------------------------|
| | Fall (15 hrs)** | Spring (17 hrs)** | Fall (17 hrs)** | Spring (15 hrs) | Fall (15 hrs) | Spring (16 hrs)** | Fall (15 hrs)** | Spring (18 hrs)** | |
| Admissions <input type="checkbox"/> Apply to U of U <input type="checkbox"/> Complete prereqs to Calculus I <input type="checkbox"/> Be offered full major status through the the Dept. of Mechanical Engineering (see our website for more details). Continuing Performance <input type="checkbox"/> 2.5 cumulative U of U GPA <input type="checkbox"/> Pre/co-reqs strictly enforced <input type="checkbox"/> C or better in major courses <input type="checkbox"/> One repeat per course (second grade counts) <input type="checkbox"/> Upper division core GPA of 2.3 Graduation Requirements <input type="checkbox"/> U of U BS requirements <input type="checkbox"/> 2.5 cumulative U of U GPA <input type="checkbox"/> C or better in major courses *** MATH 1215 will meet the same prerequisites as MATH 1210 ^ MATH 3070 is an allowed substitute for ME EN 2550, but only recommended for students in the Data Science Emphasis | MATH 1210 ME EN 1000 Intro to Design for Eng Sys 3hr L F,S 1010, 2650 | 1000, PHYS 2210, MATH 1210 ME EN 1010 Comp Prob Solv for Eng Sys 3hr L F,S 2450, 2550, 3220 | 1010, MATH 2250 ME EN 2450 Num Methods for Eng Sys 3hr L F,S 3220, 3710 | 1000, 2010, MSE 2160 ME EN 2650 Manufacturing for Eng Sys 3hr L F,S 3000, 3230 | WRTG 2010, ME EN 3xxx ME EN 3400+ Professional Communication 3hr F,S,Su* 4000, 4650 | 2650, 3310, 3315, MSE 2160 ME EN 3000 Design of Mech Elem 3hr F,S,Su* 4000 | 2300, 3000, 3220, 3230, 3310, 3315, 3400, 3650, 3710, 4650 ME EN 4000+ Engineering Design I 3hr F,S 4010 | 4000 ME EN 4010 Engineering Design II 3hr F,S | |
| | MATH 1050 or MATH 1080 CHEM 1210 Chemistry 4hr F,S,Su* CHEM 1215, MSE 2160 | | CHEM 1210, MATH 1210 MSE 2160 Materials Science 3hr F,S 2650, 3000, 3310 | MATH 2250, PHYS 2210 ME EN 2300 (formerly 3610) Thermo 3hr F,S,Su* 3650, 3710, 4650, 4000 | 2030, 2300, 2450, MATH 2250 & 2210 ME EN 3710 Fluid Mechanics 3hr F,S,Su* 3650, 4000, 4650 | 2300, 3710, MATH 2250 & 2210 & 3150 ME EN 3650 or 4610 Heat Transfer 3hr F,S,Su* 4000, 4650 | 2300, 2550, 3400, 3710, 3650 ME EN 4650 TFES Lab 3hr F,S 4000 | | Tech Elective 3hr |
| | CHEM 1210 CHEM 1215 Chemistry Lab 1hr F,S,Su* | MATH 1210 & 1220, PHYS 2210 ME EN 2010 Statics 3hr F,S,Su* 2030, 2650, 3310 | 2010, PHYS 2210, MATH 2250 ME EN 2030 Dynamics 3hr F,S,Su* 3220, 3710 | 2010, MSE 2160, MATH 2250 & 2210 ME EN 3310 Mechanics of Materials 3hr F,S 3000, 4000 | | Tech Elective 3hr | Tech Elective 3hr | Tech Elective 3hr | |
| | Gen. Ed. Req. WRTG 2010 Recommended in first year | Gen. Ed. Req. | | 1010, MATH 1220 ME EN 2550^ Probability & Statistics 3hr F,S,Su* 3230, 4650 | ME EN 3310 ME EN 3315 Mechanics of Materials 1hr F,S 3000, 4000 | | Gen. Ed. Req. | Gen. Ed. Req. | Gen. Ed. Req. |
| Co-requisite, Prerequisite CATALOG ##### Course Title 4hr L F,S,Su* — Gen. Ed. Course Concurrent, Subsequent Requires Full Major Status L = Lab Included F = Fall S = Spring Su* = Summer (tentative) ** Assumes 3 hrs per Gen. Ed. Req. | | MATH 1210 PHYS 2210 Physics I 4hr F,S,Su* 1010, 2010, 2030, 2300, MATH 2250, PHYS 2220 | PHYS 2210, MATH 1220 PHYS 2220 Physics II 4hr F,S,Su* ECE 2210 | PHYS 2220, MATH 2250 ECE 2210 Electrical Engineering 3hr L F,S 3220 | 1010, 2030, 2450, ECE 2210, MATH 2250 ME EN 3220‡ Dyn Sys & Control 3hr F,S 3230, 4000 | 2550, 2650, 3220, MATH 3150 ME EN 3230‡ Mechatronics 4hr L F,S 4000 | | Gen. Ed. Req. | |
| | MATH (1050&1060) or MATH 1080 MATH 1210 *** Calculus I 4hr F,S,Su* 1000, 1010, 2010, PHYS 2210, MATH 1220, MSE 2160 | MATH 1210 MATH 1220 Calculus II 4hr F,S,Su* 2010, 2550, PHYS 2220, MATH 2210, 2250 | (MATH 1220 & PHYS 2210) or MATH 2210 MATH 2250 ODEs & Linear Algebra 4hr F,S,Su* 2030, 2300, 2450, 3220, 3310, 3650, 3710, ECE 2210, MATH 3150 | MATH 1220 MATH 2210 Calculus III 3hr F,S,Su* 3310, 3650, 3710, MATH 3150 | MATH 2210 & 2250 MATH 3150 PDEs 2hr F,S,Su* 3230, 3650 | | | Gen. Ed. Req. | |
| General Education: Choose 8 courses that satisfy these 10 requirements: WR2 FF BF HF DV♦ AI FF BF HF IR♦ | | | | | | | | | |

Disclaimer: Course availability and prerequisites subject to change. See catalog.utah.edu