

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 (16 hrs)	Fall (13 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 Dept. of Mechanical Engineering (see our website for more information). 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 NOTE: ME EN 1000 open to anyone enrolled in Calculus I or higher but students need full major status to take any other ME EN course.	MATH 1310 ME EN 1000 Intro to Design for Eng Sys 3hr L F,S 1010, 2650	1000, PHYS 2210, MATH 1310 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 CHEM 1215 Chemistry Lab 1hr L F,S,Su*	CHEM 1210, MATH 1310 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 & 3140 ME EN 3710 Fluid Mechanics 3hr F,S,Su* 3650, 4000, 4650	2300, 3710, MATH 2250 & 3140 ME EN 3650 (formerly 4610) Heat Transfer 3hr F,S,Su* 4000, 4650	2300, 2550, 3400, 3650, 3710 ME EN 4650 TFES Lab 3hr L F,S	Tech Elective 3hr
	CHEM 1210 CHEM 1215 Chemistry Lab 1hr L F,S,Su*	MATH 1310 & 1320, 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, 3315, MSE 2160, MATH 2250 & 3140 ME EN 3310 Mechanics of Materials 3hr F,S 3000, 4000	Tech Elective 3hr	Tech Elective 3hr	Tech Elective 3hr	Tech Elective 3hr
	Gen. Ed. Req. WRTG 2010 Recommended in first year	Gen. Ed. Req.	Gen. Ed. Req.	1010, MATH 1320 ME EN 2550^ Probability & Statistics 3hr F,S,Su* 3230, 4650	ME EN 3310 ME EN 3315 Mechanics of Materials Lab 1hr L 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 1050&1060 or MATH 1080 MATH 1310 Engineering Calculus I 4hr F,S 1000, 1010, 2010, PHYS 2210, MATH 1320	MATH 1310 PHYS 2210 Physics I 4hr F,S,Su* 1010, 2010, 2030, 2300, MATH 2250, PHYS 2220	PHYS 2210, MATH 1320 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 3140 ME EN 3230‡ Mechatronics 4hr L F,S 4000	Gen. Ed. Req.	Gen. Ed. Req.
General Education: Choose 8 courses that satisfy these 10 requirements: WR2 FF BF HF DV♦ AI FF BF HF IR♦	MATH 1310 Engineering Calculus I 4hr F,S 1000, 1010, 2010, PHYS 2210, MATH 1320	MATH 1320 Engineering Calculus II 4hr F,S,Su* 2010, MSE 2160, PHYS 2220, MATH 2250	MATH 2250 ODEs & Linear Algebra 4hr F,S,Su* 2030, 2450, 3310, 3650, 3710, ECE 2210, MATH 3140	MATH 3140 Vector Calculus/PDEs 4hr F,S,Su* 3310, 3650, 3710	Gen. Ed. Req.	Gen. Ed. Req.	Gen. Ed. Req.	

^MATH 3070 is an allowed substitute for ME EN 2550, but only recommended for students in the Data Science Emphasis

Disclaimer: Course availability and prerequisites subject to change. See catalog.utah.edu. Revised 5/23/22

Notes: ♦DV and IR can double count with an FF, HF or BF †Meets the CW (Communication/Upper Division Writing) requirement ‡ Meets the QI (Quantitative Intensive) requirement