

Mechanical Engineering 2024-25 mech.utah.edu/academics	Year 1		Year 2		Year 3		Year 4	
	Fall (15 hrs)**	Spring (15 hrs)	Fall (17 hrs)**	Spring (16 hrs)	Fall (13 hrs)	Spring (16 hrs)**	Fall (15 hrs)**	Spring (15 hrs)**
<p>Admissions</p> <ul style="list-style-type: none"> ☐ Apply to U of U ☐ Complete prereqs to Calculus I ☐ Be offered full major status through the Dept. of Mechanical Engineering (see our website for more information). <p>Continuing Performance</p> <ul style="list-style-type: none"> ☐ 2.5 cumulative U of U GPA ☐ Pre/co-reqs strictly enforced ☐ C or better in major courses ☐ One repeat per course (second grade counts, total number of repeats limited) ☐ Upper division core GPA of 2.3 <p>Graduation Requirements</p> <ul style="list-style-type: none"> ☐ U of U BS requirements ☐ 2.5 cumulative U of U GPA ☐ C or better in major courses 	<p>PHYS 2210, MATH 1210</p> <p>ME EN 1010 Comp Prob Solv for Eng Sys 4hr L F,S</p> <p>2450, 2550, 3220</p>	<p>MATH 1210</p> <p>ME EN 1000 Intro to Design for Eng Sys 3hr L F,S</p> <p>2650</p>	<p>1010, MATH 2250, ME EN 2455</p> <p>ME EN 2450 & 2455 Num Methods for Eng Sys 3+1hr F,S</p> <p>3220, 3710</p>	<p>WR TG/ENGL 2010, ME EN 3xxx</p> <p>ME EN 3400† Professional Communication 3hr F,S, Su*</p> <p>4000, 4650</p>	<p>2650, 3310, 3315 MSE 2160</p> <p>ME EN 3000 Design of Mech Elem 3hr F,S, Su*</p> <p>4000</p>	<p>3000, 3220, 3230, 3310, 3315, 3400, 3650, 3710, 4650</p> <p>ME EN 4000 Engineering Design I 3hr F,S</p> <p>4010</p>	<p>4000</p> <p>ME EN 4010 Engineering Design II 3hr F,S</p>	
		<p>ME EN 1020 Appl Ethics & Prof for MechE 1hr F,S</p>	<p>CHEM 1210, MATH 1310</p> <p>MSE 2160 Materials Science 3hr F,S</p> <p>2650, 3000, 3310</p>	<p>1010, MATH 1220</p> <p>ME EN 2550^ Probability & Statistics 3hr F,S, Su*</p> <p>3230, 4650</p>	<p>2010, 3315, MSE 2160, MATH 2250 & 2210</p> <p>ME EN 3310 Mechanics of Materials 3hr F,S</p> <p>3000, 4000</p>	<p>Gen. Ed. Req.</p>	<p>Gen. Ed. Req.</p>	<p>Tech Elective 3hr</p>
	<p>MATH 1210 & 1220, PHYS 2210</p> <p>ME EN 2010 Statics 3hr F,S,Su*</p> <p>2030, 2650, 3310</p>		<p>2010, PHYS 2210, MATH 2250</p> <p>ME EN 2030 Dynamics 3hr F,S,Su*</p> <p>3220, 3710</p>	<p>1000, 2010, MSE 2160</p> <p>ME EN 2650 Manufacturing for Eng Sys 3hr L F,S</p> <p>3000, 3230</p>	<p>ME EN 3310</p> <p>ME EN 3315 Mechanics of Materials Lab 1hr L F,S</p> <p>3000, 4000</p>	<p>Tech Elective 3hr</p>	<p>Tech Elective 3hr</p>	<p>Tech Elective 3hr</p>
<p>Co-requisite, Prerequisite</p> <p>CATALOG ##### Course Title 4hr L F,S,Su* — Gen. Ed. Course</p> <p>Concurrent, Subsequent</p> <p>Requires Full Major Status</p> <p>L = Lab Included F = Fall S = Spring Su* = Summer (tentative)</p>	<p>Gen. Ed. Req. WRTG/ENGL 2010 Recommended in first year</p>	<p>MATH 1050 or MATH 1080</p> <p>CHEM 1210 Chemistry 4hr F,S,Su*</p> <p>CHEM 1215, MSE 2160</p>	<p>PHYS 2220, MATH 2250</p> <p>ECE 2210 Electrical Engineering 3hr L F,S</p> <p>3220</p>	<p>ME EN 2650</p> <p>ME EN 2655 Manufact Lab 1hr L F,S</p> <p>3000, 3230</p>	<p>1010, 2030, 2450, ECE 2210, MATH 2250</p> <p>ME EN 3220‡ Dyn Sys & Control 3hr F,S</p> <p>3230, 4000</p>	<p>2550, 2650, 3220, MATH 3140</p> <p>ME EN 3230‡ Mechatronics 4hr L F,S</p> <p>4000</p>	<p>Gen. Ed. Req.</p>	<p>Gen. Ed. Req.</p>
	<p>MATH 1210</p> <p>PHYS 2210 Physics I 4hr F,S,Su*</p> <p>1010, 2010, 2030, 2300, MATH 2250, PHYS 2220</p>	<p>CHEM 1210</p> <p>CHEM 1215 Chemistry Lab 1hr L F,S,Su*</p>	<p>PHYS 2210, MATH 1220</p> <p>PHYS 2220 Physics II 4hr F,S,Su*</p> <p>ECE 2210</p>	<p>MATH 2250, PHYS 2210</p> <p>ME EN 2300 Thermo 3hr F,S, Su*</p> <p>3650, 3710, 4650, 4000</p>	<p>2030, 2300, 2450, MATH 2250 & 2210</p> <p>ME EN 3710 Fluid Mechanics 3hr F,S, Su*</p> <p>3650, 4000, 4650</p>	<p>2300, 3710, MATH 2250 & 2210 & 3150</p> <p>ME EN 3650 Heat Transfer 3hr F,S, Su*</p> <p>4000, 4650</p>	<p>2550, 3400, 3650, 3710</p> <p>ME EN 4650 TFES Lab 3hr L F,S</p>	<p>Gen. Ed. Req.</p>
<p>General Education: Choose 7 courses that satisfy these 9 requirements: WR1 WR2 FF BF DV AI HF LS IR</p> <p>WRTG 1010 is a prerequisite for WRTG/ENGL 2010. Credit for WRTG 1010 may be completed through challenge exam.</p> <p>•DV and IR can double count with an FF, HF, LS, or BF</p> <p>† Meets the CW (Communication/Upper Division Writing) requirement</p> <p>‡ Meets the QI (Quantitative Intensive) requirement</p>	<p>MATH 1210</p> <p>MATH 1220 Calculus II 4hr F,S,Su*</p> <p>2010, MSE 2160, PHYS 2220, MATH 2250</p>	<p>MATH 1220 or MATH 2250</p> <p>MATH 2210 Calculus III 3hr F,S,Su*</p> <p>3310, 3650, 3710, MATH 3150</p>	<p>(MATH 1220 & PHYS 2210) OR MATH 2210</p> <p>MATH 2250 ODEs & Linear Algebra 4hr F,S,Su*</p> <p>2030, 2450, 3310, 3650, 3710, ECE 2210, MATH 3150</p>	<p>MATH 2210 & 2250</p> <p>MATH 3150 PDEs 2hr F,S,Su*</p> <p>3230, 3650</p>				

*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.

Notes: †Meets the CW (Communication/Upper Division Writing) requirement ‡ Meets the QI (Quantitative Intensive) requirement

Revised August 2024