

Mechanical Engineering 2024-25 mech.utah.edu/academics	Year 1		Year 2		Year 3		Year 4	
	Fall (16 hrs)**	Spring (15 hrs)	Fall (17 hrs)	Spring (15 hrs)	Fall (16 hrs)	Spring (16 hrs)**	Fall (15 hrs)**	Spring (15 hrs)**
<p><b>Admissions</b></p> <ul style="list-style-type: none"> <li>Apply to U of U</li> <li>Be ready to take Calc I or higher</li> <li>Be offered full major status through the Dept. of Mechanical Engineering (see our website for more information).</li> </ul> <p><b>Continuing Performance</b></p> <ul style="list-style-type: none"> <li>2.5 cumulative U of U GPA</li> <li>Pre/co-reqs strictly enforced</li> <li>C or better in major courses</li> <li>One repeat per course (second grade counts, total number of repeats limited).</li> </ul> <p><b>Graduation Requirements</b></p> <ul style="list-style-type: none"> <li>U of U BS requirements</li> <li>2.5 cumulative U of U GPA</li> <li>C or better in major courses</li> </ul>	<p>MATH 1310</p> <p><b>ME EN 1000</b> Intro to Design for Eng Sys 3hr L F,S</p> <p>1010, 2650</p>	<p>PHYS 2210, MATH 1310</p> <p><b>ME EN 1010</b> Comp Prob Solv for Eng Sys 4hr L F,S</p> <p>2450, 2550, 3220</p>		<p>1010, MATH 2250, ME EN 2455</p> <p><b>ME EN 2450</b> Num Methods for Eng Sys 3hr F,S</p> <p>3220, 3710</p>	<p>WR TG/ENGL 2010, ME EN 3xxx</p> <p><b>ME EN 3400†</b> Professional Communication 3hr F,S, Su*</p> <p>4000, 4650</p>	<p>2650, 3310, 3315 MSE 2160</p> <p><b>ME EN 3000</b> Design of Mech Elem 3hr F,S, Su*</p> <p>4000</p>	<p>3000, 3220, 3230, 3310, 3315, 3400, 3650, 3710, 4650</p> <p><b>ME EN 4000†</b> Engineering Design I 3hr F,S</p> <p>4010</p>	<p>4000</p> <p><b>ME EN 4010</b> Engineering Design II 3hr F,S</p>
	<p>MATH 1050 or MATH 1080</p> <p><b>CHEM 1210</b> Chemistry 4hr F,S,Su*</p> <p>CHEM 1215, MSE 2160</p>		<p>CHEM 1210, MATH 1310</p> <p><b>MSE 2160</b> Materials Science 3hr F,S</p> <p>2650, 3000, 3310</p>	<p>ME EN 2450</p> <p><b>ME EN 2455</b> Model &amp; Sim Lab 1hr L F,S</p> <p>3220, 3710</p>	<p>2010, 3315, MSE 2160, MATH 2250 &amp; 3140</p> <p><b>ME EN 3310</b> Mechanics of Materials 3hr F,S</p> <p>3000, 4000</p>	Gen. Ed. Req.	Gen. Ed. Req.	<p>Tech Elective</p> <p>3hr</p>
	<p>CHEM 1210</p> <p><b>CHEM 1215</b> Chemistry Lab 1hr L F,S,Su*</p>	<p>MATH 1310 &amp; 1320, PHYS 2210</p> <p><b>ME EN 2010</b> Statics 3hr F,S,Su*</p> <p>2030, 2650, 3310</p>	<p>2010, PHYS 2210, MATH 2250</p> <p><b>ME EN 2030</b> Dynamics 3hr F,S,Su*</p> <p>3220, 3710</p>	<p>1000, 2010, MSE 2160</p> <p><b>ME EN 2650</b> Manufacturing for Eng Sys 3hr L F,S</p> <p>3000, 3230</p>	<p>ME EN 3310</p> <p><b>ME EN 3315</b> Mechanics of Materials Lab 1hr L F,S</p> <p>3000, 4000</p>	Tech Elective	Tech Elective	Tech Elective
	<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. WR TG/ENGL 2010 Recommended in first year</p>	<p>PHYS 2220, MATH 2250</p> <p><b>ECE 2210</b> Electrical Engineering 3hr L F,S</p> <p>3220</p>	<p>ME EN 2650</p> <p><b>ME EN 2655</b> Manufact Lab 1hr L F,S</p> <p>3000, 3230</p>	<p>1010, 2030, 2450, ECE 2210, MATH 2250</p> <p><b>ME EN 3220‡</b> Dyn Sys &amp; Control 3hr F,S</p> <p>3230, 4000</p>	<p>2550, 2650, 3220, MATH 3140</p> <p><b>ME EN 3230‡</b> Mechatronics 4hr L F,S</p> <p>4000</p>	Gen. Ed. Req.	Gen. Ed. Req.
	<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><b>ME EN 1020</b> Appl Ethics &amp; Prof for MechE 1hr F,S</p>	<p>MATH 1310</p> <p><b>PHYS 2210</b> Physics I 4hr F,S,Su*</p> <p>1010, 2010, 2030, 2300, MATH 2250, PHYS 2220</p>	<p>PHYS 2210, MATH 1320</p> <p><b>PHYS 2220</b> Physics II 4hr F,S,Su*</p> <p>ECE 2210</p>	<p>MATH 2250, PHYS 2210</p> <p><b>ME EN 2300</b> Thermo 3hr F,S, Su*</p> <p>3650, 3710, 4650, 4000</p>	<p>2030, 2300, 2450, MATH 2250 &amp; 3140</p> <p><b>ME EN 3710</b> Fluid Mechanics 3hr F,S, Su*</p> <p>3650, 4000, 4650</p>	<p>2300, 3710, MATH 2250 &amp; 3140</p> <p><b>ME EN 3650</b> Heat Transfer 3hr F,S, Su*</p> <p>4000, 4650</p>	<p>2550, 3400, 3650, 3710</p> <p><b>ME EN 4650</b> TFES Lab 3hr L F,S</p>
	<p>MATH (1050&amp;1060) or MATH 1080</p> <p><b>MATH 1310</b> Engineering Calculus I 4hr F,S</p> <p>1000, 1010, 2010, PHYS 2210, MATH 1320</p>	<p>MATH 1310</p> <p><b>MATH 1320</b> Engineering Calculus II 4hr F,S,Su*</p> <p>2010, MSE 2160, PHYS 2220, MATH 2250</p>	<p>MATH 1320</p> <p><b>MATH 2250</b> ODEs &amp; Linear Algebra 4hr F,S,Su*</p> <p>2030, 2450, 3310, 3650, 3710, ECE 2210, MATH 3140</p>	<p>MATH 1320 &amp; 2250</p> <p><b>MATH 3140</b> Vector Calculus/PDEs 4hr F,S,Su*</p> <p>3310, 3650, 3710</p>	<p>1010, MATH 1320</p> <p><b>ME EN 2550^</b> Probability &amp; Statistics 3hr F,S, Su*</p> <p>3230, 4650</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