

Year 1		Year 2		Year 3		Year 4		Year 5	
Fall (12 hrs)	Spring (12 hrs)	Fall (12 hrs)	Spring (13 hrs)**	Fall (12 hrs)	Spring (13 hrs)	Fall (13 hrs)**	Spring (12 hrs)**	Fall (12 hrs)**	Spring (15 hrs)**
<p>MATH 1210</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 1210</p> <p><b>ME EN 1010</b> Comp Prob Solv for Eng Sys 4hr L F,S</p> <p>2450, 2550, 3220</p>	<p><b>ME EN 1020</b> Appl Ethics &amp; Prof for MechE 1hr F,S</p>	<p>1010, MATH 2250</p> <p><b>ME EN 2450 &amp; 2455</b> Num Methods for Eng Sys 3+1hr L F,S</p> <p>3220, 3710</p>	<p>1000, 2010, MSE 2160</p> <p><b>ME EN 2650 &amp; 2655</b> Manufacturing for Eng Sys 3+1hr L F,S</p> <p>3000, 3230</p>	<p>2010, 3315, MSE 2160, MATH 2250 &amp; 2210</p> <p><b>ME EN 3310 &amp; 3315</b> Mechanics of Materials &amp; Lab 3hr+1hr L F,S</p> <p>3000, 4000</p>	<p>WRWG 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>MATH 1210</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 1220</p> <p><b>PHYS 2220</b> Physics II 4hr F,S,Su*</p> <p>ECE 2210</p>	<p><b>Gen. Ed. Req.</b> <b>WRWG 2010</b> Recommended in first year.</p>	<p>CHEM 1210, MATH 1210</p> <p><b>MSE 2160</b> Materials Science 3hr F,S</p> <p>2650, 3000, 3310</p>	<p>MATH 2250, PHYS 2210</p> <p><b>ME EN 2300</b> (formerly 3610) Thermo 3hr F,S, Su*</p> <p>3650, 3710, 4650, 4000</p>	<p>2030, 2450, 2300, MATH 2250 &amp; 2210</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; 3150</p> <p><b>ME EN 3650</b> (formerly 4610) Heat Transfer 3hr F,S, Su*</p> <p>4000, 4650</p>	<p>2550, 3400, 3710, 3650</p> <p><b>ME EN 4650</b> TFES Lab 3hr L F,S</p> <p>4000</p>	<p><b>Tech Elective</b> 3hr</p> <p><b>Tech Elective</b> 3hr</p>
<p>CHEM 1210</p> <p><b>CHEM 1215</b> Chemistry Lab 1hr L F,S,Su*</p>		<p>MATH 1210 &amp; 1220, 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>PHYS 2220, MATH 2250</p> <p><b>ECE 2210</b> Electrical Engineering 3hr L F,S</p> <p>3220</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 3150</p> <p><b>ME EN 3230‡</b> Mechatronics 4hr L F,S</p> <p>4000</p>	<p><b>Gen. Ed. Req.</b></p>	<p><b>Gen. Ed. Req.</b></p>	<p><b>Gen. Ed. Req.</b></p>
<p>MATH (1050&amp;1060) or MATH 1080</p> <p><b>MATH 1210</b> *** Calculus I 4hr F,S, Su*</p> <p>1000, 1010, 2010, PHYS 2210, MATH 1220</p>	<p>MATH 1220</p> <p><b>MATH 1220</b> Calculus II 4hr F,S,Su*</p> <p>PHYS 2220, MATH 2250, MATH 2210</p>	<p>MATH 2210 OR MATH 1220 &amp; PHYS 2210</p> <p><b>MATH 2250</b> Diff Eqs &amp; Linear Algebra 4hr F,S,Su*</p> <p>2030, 2300, 2450, 3220, 3310, 3650, 3710, ECE 2210, MATH 3150</p>	<p>MATH 1220</p> <p><b>MATH 2210</b> Calculus III 3hr F,S,Su*</p> <p>3310, 3710, 3650</p>	<p>MATH 2210 &amp; 2250</p> <p><b>MATH 3150</b> PDEs 2hr F,S,Su*</p> <p>3230, 3650</p>	<p>1010, MATH 1220</p> <p><b>ME EN 2550^</b> Probability &amp; Statistics 3hr F,S, Su*</p> <p>3230, 4650</p>	<p><b>Gen. Ed. Req.</b></p>	<p><b>Tech Elective</b> 3hr</p>	<p><b>Tech Elective</b> 3hr</p>	<p><b>Gen. Ed. Req.</b></p>

**2024-25 Flowchart Key, Graduation Requirements, and Department of Mechanical Engineering Policies**

<p>Co-requisite, Prerequisite</p> <p>CATALOG ##### Course Title 4hr L F,S,Su*</p> <p>Concurrent, Subsequent</p> <p>Requires Full Major Status</p> <p>L = Lab Included F = Fall S = Spring Su* = Summer (tentative)</p> <p>** Assumes 3 hrs per Gen. Ed. Req.</p>	<p><b>General Education Requirements:</b> WR 1 WR2 FF BF AI LS HF</p>	<p><b>Bachelor Degree Requirements:</b> DV♦ IR♦ CW† QI‡</p>	<p><b>Admission</b></p> <ul style="list-style-type: none"> <li>Apply and be accepted to the U of U</li> <li>Be ready to take Calc I or higher</li> <li>Be offered Full Major Status by the Dept. of Mechanical Engineering (process varies depending if you're a new freshman, a current Uof U student or a transfer student; see our website for more information)</li> </ul> <p><b>Writing</b></p> <ul style="list-style-type: none"> <li>WRWG 1010 is a prerequisite for WRWG/ ENGL 2010</li> <li>Recommend credit for WRWG 1010 through AP or challenge exam</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, 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><small>^MATH 3070 is an allowed substitute for ME EN 2550, but only recommended for students in the Data Science Emphasis</small></p>
	<p><b>Gen Ed and Bachelor Degree Requirement Notes:</b></p> <ul style="list-style-type: none"> <li>♦ DV and IR can double count with an FF, HF, LS, or BF</li> <li>†ME EN 3400 meets the CW (Upper Division Writing) requirement</li> <li>‡ ME EN 3220 &amp; 3230 meet the QI (Quantitative Intensive) requirement</li> <li>*** MEEN 1215 will meet the same prerequisites as MATH 1210</li> </ul>			