

Year 1		Year 2		Year 3		Year 4		Year 5	
Fall (12 hrs)	Spring (14 hrs)	Fall (14 hrs)**	Spring (13 hrs)**	Fall (12 hrs)**	Spring (13 hrs)**	Fall (13 hrs)**	Spring (12 hrs)**	Fall (12 hrs)**	Spring (12 hrs)**
<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>1000, PHYS 2210, MATH 1310</p> <p><b>ME EN 1010</b> Comp Prob Solv for Eng Sys 3hr L F,S</p> <p>2450, 2550, 3220</p>	<p>1010, MATH 2250</p> <p><b>ME EN 2450</b> Num Methods for Eng Sys 3hr L F,S</p> <p>3220, 3710</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>2010, 3315, MSE 2160, MATH 2250 &amp; 3140</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</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 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>CHEM 1210, MATH 1310</p> <p><b>MSE 2160</b> Materials Science 3hr F,S</p> <p>2650, 3000, 3310</p>	<p>PHYS 2220, MATH 2250</p> <p><b>ECE 2210</b> Electrical Engineering 3hr L F,S</p> <p>3220</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, 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> (formerly 4610) Heat Transfer 3hr F,S, Su*</p> <p>4000, 4650</p>	<p>2300, 2550, 3400, 3650, 3710</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>CHEM 1210</p> <p><b>CHEM 1215</b> Chemistry Lab 1hr L F,S,Su*</p>	<p><b>Gen. Ed. Req.</b> <b>WRWG 2010</b> Recommended in first year</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><b>Gen. Ed. Req.</b></p>	<p><b>Gen. Ed. Req.</b></p>	<p><b>Gen. Ed. Req.</b></p>	<p><b>Gen. Ed. Req.</b></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 1310</b> Engineering Calculus I 4hr F,S</p> <p>1000, 1010, 2010, MSE 2160, PHYS 2210, MATH 1320</p>	<p>MATH 1310</p> <p><b>MATH 1320</b> Engineering Calculus II 4hr F,S,Su*</p> <p>2010, 2550, PHYS 2220, MATH 2250, 3140</p>	<p>MATH 1320</p> <p><b>MATH 2250</b> Diff Eqs &amp; Linear Algebra 4hr F,S,Su*</p> <p>2030, 2450, 3220, 3310, 2300, 3710, 4610, 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, 3710, 4610</p>	<p>1010, MATH 1320</p> <p><b>ME EN 2550</b> Probability &amp; Statistics 3hr F,S, Su*</p> <p>3230, 4650</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>	<p><b>Tech Elective</b> 3hr</p>	<p><b>Tech Elective</b> 3hr</p>	<p><b>Tech Elective</b> 3hr</p>

**2021-2022 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>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>** Assumes 3 hrs per Gen. Ed. Req.</p>	<p><b>General Education Requirements:</b> WR2 FF BF HF AI FF BF HF</p>	<p><b>Bachelor Degree Requirements:</b> DV♦ IR♦ CW† 2-Q‡</p>	<p><b>Admission</b></p> <ul style="list-style-type: none"> <li>□ Apply and be accepted to the U of U</li> <li>□ Complete prereqs to Calculus I</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> <li>□ Students enrolled in Calculus I or higher may enroll in ME EN 1000 without Full Major Status in Mechanical Engineering. Students must have Full Major Status in order to take most other ME EN courses.</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>□ C or better in MATH courses</li> <li>□ One repeat per course (second grade counts)</li> <li>□ Upper division core GPA of 2.3</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><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 or BF so the ten requirements not covered by the major can be completed with 8 classes</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> </ul>			

