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

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

Co-requisite, Prerequisite
CATALOG #### Course Title
4hr L F,S,Su*
Concurrent, Subsequent

2.7 or higher cum. GPA required for Full Major Status

Gen. Ed. Course

Requires Full Major Status

L = Lab Included
F = Fall
S = Spring
Su* = Summer (tentative)

** Assumes 3 hrs per Gen. Ed. Req.

General Education Requirements:
WR 1 WR2 FF BF
AI LS HF

Bachelor Degree Requirements:
DV♦ IR♦ CW† QI‡

Gen Ed and Bachelor Degree Requirement Notes:

♦ DV and IR can double count with an FF, HF, LS, or BF
†ME EN 3400 meets the CW (Upper Division Writing) requirement
‡ ME EN 3220 & 3230 meet the QI (Quantitative Intensive) requirement
*** MEEN 1215 will meet the same prerequisites as MATH 1210

Admission
- ❑ Apply and be accepted to the U of U
- ❑ Be ready to take Calc I or higher
- ❑ 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)

Writing
- ❑ WRTG 1010 is a prerequisite for WRTG/ ENGL 2010
- ❑ Recommend credit for WRTG 1010 through AP or challenge exam

Continuing Performance
- ❑ 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, number of repeats limited)

Graduation Requirements
- ❑ U of U BS requirements
- ❑ 2.5 cumulative U of U GPA
- ❑ C or better in major courses

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

THE UNIVERSITY OF UTAH
DEPARTMENT OF MECHANICAL ENGINEERING

Disclaimer: Course availability and prerequisites subject to change. See catalog.utah.edu. Revised 8/2024