Mechanical Engineering 2023-24

mech.utah.edu/academics

Admissions

- ❑ Apply to U of U
- ❑ Complete prereqs to Calculus I
- ❑ Be offered full major status through the the Dept. of Mechanical Engineering (see our website for more details).

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)
- ❑ Upper division core GPA of 2.3

Graduation Requirements

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

*** MATH 1215 will meet the same prerequisites as MATH 1210

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

Co-requisite, Prerequisite

CATALOG #### Course Title 4hr L F,S,Su*

Concurrent, Subsequent

Requires Full Major Status

L = Lab Included

F = Fall

S = Spring

Su* = Summer (tentative)

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

General Education: Choose 8 courses that satisfy these 10 requirements:

WR2 FF BF HF DV♦

AI FF BF HF IR♦

Year 1		Year 2		Year 3		Year 4	
Fall (15 hrs)**	Spring (17 hrs)**	Fall (17 hrs)**	Spring (15 hrs)	Fall (15 hrs)	Spring (16 hrs)**	Fall (15 hrs)**	Spring (18 hrs)**
MATH 1210 **ME EN 1000** Intro to Design for Eng Sys 3hr L F,S 1010, 2650	1000, PHYS 2210, MATH 1210 **ME EN 1010** Comp Prob Solv for Eng Sys 3hr L F,S 2450, 2550, 3220	1010, MATH 2250 **ME EN 2450** Num Methods for Eng Sys 3hr L F,S 3220, 3710	1000, 2010, MSE 2160 **ME EN 2650** Manufacturing for Eng Sys 3hr L F,S 3000, 3230	HON 2211/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	2300, 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 & 1220 PHYS 2210 **ME EN 2010** Statics 3hr F,S,Su* 2030, 2650, 3310	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, 2300, 2450, MATH 2250 & 2210 **ME EN 3710** Fluid Mechanics 3hr F,S, Su* 3650, 4000, 4650	2300, 3710, MATH 2250 & 2210 & 3150 **ME EN 3650 or 4610** Heat Transfer 3hr F,S, Su* 4000, 4650	2300, 2550, 3400, 3710, 3650 **ME EN 4650** TFES Lab 3hr F,S 4000	**Tech Elective** Honors Thesis ME EN 4999 3hr
CHEM 1210 **CHEM 1215** Chemistry Lab 1hr F,S,Su*	**Gen. Ed. Req.** **HONOR 2211** Recommended in first year	2010, PHYS 2210, MATH 2250 **ME EN 2030** Dynamics 3hr F,S,Su* 3220, 3710		2010, MSE 2160, MATH 2250 & 2210 **ME EN 3310** Mechanics of Materials 3hr F,S 3000, 4000	**Tech Elective** Honors Elec. ME EN 5000/6000 3hr	**Tech Elective** Honors Elec. ME EN 5000/6000 3hr	**Tech Elective** Honors Elec. ME EN 5000/6000 3hr
HONORS Learning Community 0-2hr	**HONORS Learning Community** 0-1hr		1010, MATH 1220 **ME EN 2550^** Probability & Statistics 3hr F,S, Su* 3230, 4650	ME EN 3310 **ME EN 3315** Mechanics of Materials 1hr F,S 3000, 4000	**Honors IT HF**	**Gen. Ed. Req.**	**Gen. Ed. Req.**
Honors IT HF	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	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.**
MATH (1050&1060) or MATH 1080 **MATH 1210** *** Calculus I 4hr F,S,Su* 1000, 1010, 2010, PHYS 2210, MATH 1220, MSE 2160	MATH 1210 **MATH 1220** Calculus II 4hr F,S,Su* 2010,2550, PHYS 2220, MATH 2210, 2250	(MATH 1220 & PHYS 2210) or MATH 2210 **MATH 2250** ODEs & 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, 3650, 3710, MATH 3150	MATH 2210 & 2250 **MATH 3150** PDEs 2hr F,S,Su* 3230, 3650			**Gen. Ed. Req.**

Disclaimer: Course availability and prerequisites subject to change. See catalog.utah.edu.

Notes: ♦DV and IR can each double count with an FF, HF or BF †Meets the CW (Communication/Upper Division Writing) requirement ‡ Meets the QI (Quantitative Intensive) requirement

Updated 6/12/23