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 Dept. of Mechanical Engineering (see our website for more information).

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

HONORS NOTE: CHEM 1211 and MATH 1311 will fulfill a science elective credit, but is not required.

Additional honors general education courses can be taken if student does not enroll in Learning Community courses.

Year 1		Year 2		Year 3		Year 4	
Fall (17 hrs)**	Spring (18 hrs)**	Fall (17 hrs)**	Spring (16 hrs)	Fall (13 hrs)	Spring (16 hrs)**	Fall (15 hrs)**	Spring (18 hrs)**
MATH 1311 → **ME EN 1000** Intro to Design for Eng Sys 3hr L F,S → 1010, 2650	1000, PHYS 2210, MATH 1311 → **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 1311 & 1321, PHYS 2210 → **ME EN 2010** Statics 3hr F,S,Su* → 2030, 2650, 3310	CHEM 1210, MATH 1311 → **MSE 2160** Materials Science 3hr F,S → 2650, 3000, 3310	MATH 2250, PHYS 2210 → **ME EN 2300** Thermo 3hr F,S, Su* → 3650, 3710, 4650, 4000	2030, 2300, 2450, MATH 2250 & 3140 → **ME EN 3710** Fluid Mechanics 3hr F,S, Su* → 3650, 4000, 4650	2300, 3710, MATH 2250 & 3140 → **ME EN 3650** Heat Transfer 3hr F,S, Su* → 4000, 4650	2300, 2550, 3400, 3650, 3710 → **ME EN 4650** TFES Lab 3hr L F,S	**Tech Elective Honors Thesis** ME EN 4999 3hr
CHEM 1210 → **CHEM 1215** Chemistry Lab 1hr L 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, 3315, MSE 2160, MATH 2250 & 3140 → **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 1321 → **ME EN 2550^** Probability & Statistics 3hr F,S, Su* → 3230, 4650	ME EN 3310 → **ME EN 3315** Mechanics of Materials Lab 1hr L F,S → 3000, 4000	**Honors IT HF**	**Gen. Ed. Req.**	**Gen. Ed. Req.**
Honors IT HF 3hr	MATH 1311 → **PHYS 2210** Physics I 4hr F,S,Su* → 1010, 2010, 2030, 2300, MATH 2250, PHYS 2220	PHYS 2210, MATH 1321 → **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 3140 → **ME EN 3230‡** Mechatronics 4hr L F,S → 4000	**Gen. Ed. Req.**	**Gen. Ed. Req.**
MATH (1050&1060) or MATH 1080 → **MATH 1311** Accl. Engineer Calculus I 4hr F → 1000, 1010, 2010, PHYS 2210, MATH 1321	MATH 1311 → **MATH 1321** Accl. Engineer Calculus II 4hr F,S → 2010, MSE 2160, PHYS 2220, MATH 2250	MATH 1321 → **MATH 2250** ODEs & Linear Algebra 4hr F,S,Su* → 2030, 2450, 3310, 3650, 3710, ECE 2210, MATH 3140	MATH 1321 & 2250 → **MATH 3140** Vector Calculus/ PDEs 4hr F,S,Su* → 3310, 3650, 3710				**Gen. Ed. Req.**

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♦

^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. Revised 6/12/23

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