# Mechanical Engineering 2024-25

mech.utah.edu/academics

## Admissions

- ❑ Apply to U of U
- ❑ Be ready to take Calc I or higher
- ❑ 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, total number of repeats limited)

## Graduation Requirements

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

Co-requisite, Prerequisite

CATALOG #### Course Title 4hr L F,S,Su* — Gen. Ed. Course

Concurrent, Subsequent

Requires Full Major Status

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

**General Education:** Choose 6 courses that satisfy these 8 requirements:

WR2 FF BF DV♦
AI HF LS IR♦

Notes:
WRTG 1010 is a prerequisite for WRTG/ENGL 2010 and HONOR 2211.
Credit for WRTG 1010 may be completed through challenge exam.

| Year 1 | | Year 2 | | Year 3 | | Year 4 | |
|---|---|---|---|---|---|---|---|
| Fall (16.5 hrs) | Spring (17.5 hrs) | Fall (17 hrs) | Spring (17 hrs) | Fall (15 hrs) | Spring (16 hrs) | Fall (18 hrs) | Spring (15 hrs) |
| MATH 1210 → **ME EN 1000** Intro to Design for Eng Sys 3hr L F,S → 2650 | PHYS 2210, MATH 1210 → **ME EN 1010** Comp Prob Solv for Eng Sys 4hr L F,S → 2450, 2550, 3220 | | 1010, MATH 2250, ME EN 2455 → **ME EN 2450 & 2455** Num Methods for Eng Sys 3+1hr F,S → 3220, 3710 | WRTG/ENGL 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 | **ME EN 1020** Appl Ethics & Prof for MechE 1hr F,S | CHEM 1210, MATH 1210 → **MSE 2160** Materials Science 3hr F,S → 2650, 3000, 3310 | 1010, MATH 1210 → **ME EN 2550** Probability & Statistics 3hr F,S, Su* → 3230, 4650 | 2010, 3315, MSE 2160, MATH 2250 & 2210 → **ME EN 3310** Mechanics of Materials 3hr F,S → 3000, 4000 | **Gen. Ed. Req.** *Honors Seminar Course* | **Gen. Ed. Req.** | **Tech Elective** Honors Thesis ME EN 4999 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 | 1000, 2010, MSE 2160 → **ME EN 2650** Manufacturing for Eng Sys 3hr L F,S → 3000, 3230 | ME EN 3310 → **ME EN 3315** Mechanics of Materials Lab 1hr L F,S → 3000, 4000 | **Tech Elective** Honors Elec ME EN 5/6000 3hr | **Tech Elective** Honors Elec ME EN 5/6000 3hr | **Tech Elective** Honors Elec ME EN 5/6000 3hr |
| **HONOR 1010** 1.5 hr | **HONOR 1020** 1.5 hr | PHYS 2220, MATH 2250 → **ECE 2210** Electrical Engineering 3hr L F,S → 3220 | ME EN 2650 → **ME EN 2655** Manufact Lab 1hr L F,S → 3000, 3230 | 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.** |
| **Gen. Ed. Req.** **WRTG 2010** Int Writing | 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 | MATH 2250, PHYS 2210 → **ME EN 2300** 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** Heat Transfer 3hr F,S, Su* → 4000, 4650 | 2550, 3400, 3650, 3710 → **ME EN 4650** TFES Lab 3hr L F,S | **HONORS IT** |
| MATH (1050&1060) or MATH 1080 → **MATH 1210** Calculus I 4hr F,S, Su* → 1000, 1010, 2010, PHYS 2210, MATH 1220 | MATH 1210 → **MATH 1220** Calculus II 4hr F,S,Su* → 2010, MSE 2160, PHYS 2220, MATH 2250 | (MATH 1220 & PHYS 2210) OR MATH 2210 → **MATH 2250** ODEs & Linear Algebra 4hr F,S,Su* → 2030, 2450, 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 | | **HONORS IT** | |

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

**Notes**: †Meets the CW (Communication/Upper Division Writing) requirement ‡ Meets the QI (Quantitative Intensive) requirement

Revised March 2024