Mechanical Engineering 2024-25

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, total number of repeats limited)
- ❑ 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

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 7 courses that satisfy these 9 requirements:

WR1 WR2 FF BF DV· AI HF LS IR·

WRTG 1010 is a prerequisite for WRTG/ENGL 2010.Credit for WRTG 1010 may be completed through challenge exam.

·DV and IR can double count with an FF, HF, LS, or BF

† Meets the CW (Communication/Upper Division Writing) requirement

‡ Meets the QI (Quantitative Intensive) requirement

Year 1		Year 2		Year 3		Year 4	
Fall (16 hrs)**	Spring (15 hrs)	Fall (14 hrs)	Spring (15 hrs)	Fall (16 hrs)	Spring (16 hrs)**	Fall (15 hrs)**	Spring (15 hrs)**
ME EN 1010 Comp Prob Solv for Eng Sys 4hr L F,S → 2450, 2550, 3220	**ME EN 1000** Intro to Design for Eng Sys 3hr L F,S → 2650	**ME EN 2450 & 2455** Num Methods for Eng Sys 3+1hr F,S → 3220, 3710	**ME EN 3310** Mechanics of Materials 3hr F,S → 3000, 4000	**ME EN 3400†** Professional Communication 3hr F,S, Su* → 4000, 4650	**ME EN 3000** Design of Mech Elem 3hr F,S, Su* → 4000	**ME EN 4000** Engineering Design I 3hr F,S → 4010	**ME EN 4010** Engineering Design II 3hr F, S
ME EN 1020 Appl Ethics & Prof for MechE 1hr F,S		**MSE 2160** Materials Science 3hr F,S → 2650, 3000, 3310	**ME EN 3315** Mechanics of Materials Lab 1hr L F,S → 3000, 4000	**ME EN 2650** Manufacturing for Eng Sys 3hr L F,S → 3000, 3230	**Gen. Ed. Req.**	**Gen. Ed. Req.**	**Tech Elective** 3hr
	ME EN 2010 Statics 3hr F,S,Su* → 2030, 2650, 3310		**ME EN 2030** Dynamics 3hr F,S,Su* → 3220, 3710	**ME EN 2655** Manufact Lab 1hr L F,S → 3000, 3230	**Tech Elective** 3hr	**Tech Elective** 3hr	**Tech Elective** 3hr
Gen. Ed. Req. WRTG/ENGL 2010 Recommended in first year	**CHEM 1210** Chemistry 4hr F,S,Su* → CHEM 1215, MSE 2160		**ECE 2210** Electrical Engineering 3hr L F,S → 3220	**ME EN 3220‡** Dyn Sys & Control 3hr F,S → 3230, 4000	**ME EN 3230‡** Mechatronics 4hr L F,S → 4000	**Gen. Ed. Req.**	**Gen. Ed. Req.**
PHYS 2210 Physics I 4hr F,S,Su* → 1010, 2010, 2030, 2300, MATH 2250, PHYS 2220	**CHEM 1215** Chemistry Lab 1hr L F,S,Su*	**PHYS 2220** Physics II 4hr F,S,Su* → ECE 2210	**ME EN 2300** Thermo 3hr F,S, Su* → 3650, 3710, 4650, 4000	**ME EN 3710** Fluid Mechanics 3hr F,S, Su* → 3650, 4000, 4650	**ME EN 3650** Heat Transfer 3hr F,S, Su* → 4000, 4650	**ME EN 4650** TFES Lab 3hr L F,S	**Gen. Ed. Req.**
MATH 1220 Calculus II 4hr F,S,Su* → 2010, MSE 2160, PHYS 2220, MATH 2250	**MATH 2250** ODEs & Linear Algebra 4hr F,S,Su* → 2030, 2450, 3310, 3650, 3710, ECE 2210, MATH 3150	**MATH 2210** Calculus III 3hr F,S,Su* → 3310, 3650, 3710, MATH 3150	**MATH 3150** PDEs 2hr F,S,Su* → 3230, 3650	**ME EN 2550^** Probability & Statistics 3hr F,S, Su* → 3230, 4650			

^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.

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Revised October 2024