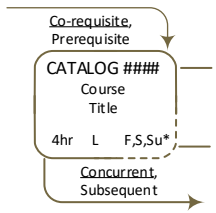
| Year 1 | | Year 2 | | Year 3 | | Year 4 | | Year 5 | |
|---|---|---|---|---|---|---|---|---|---|
| Fall (13 hrs)** | Spring (14 hrs)** | Fall (13 hrs)** | Spring (14 hrs) | Fall (14 hrs) | Spring (12 hrs) | Fall (16 hrs) | Spring (13 hrs) | Fall (12 hrs)** | Spring (12 hrs) |
| **Gen. Ed. Req.**<br>**WRTG 2010**<br>Recommended in first year | **Gen. Ed. Req.** | MATH 1310<br>**ME EN 1000**<br>Intro to Design for Eng Sys<br>3hr L F,S<br>1010, 2650 | 1000, PHYS 2210, MATH 1310<br>**ME EN 1010**<br>Comp Prob Solv for Eng Sys<br>3hr L F,S<br>2450, 2550, 3220 | CHEM 1210, MATH 1310<br>**MSE 2160**<br>Materials Science<br>3hr F,S<br>2650, 3000, 3310 | 1010, MATH 2250<br>**ME EN 2450**<br>Num Methods for Eng Sys<br>3hr L F,S<br>3220, 3710 | 2010, 3315, MSE 2160, MATH 2250 & 2210<br>**ME EN 3310 & 3315**<br>Mechanics of Materials & Lab<br>3hr+ 1hr L F,S<br>3000, 4000 | 2650, 3310, 3315 MSE 2160<br>**ME EN 3000**<br>Design of Mech Elem<br>3hr F,S<br>4000 | 2300, 3000, 3220, 3230, 3310, 3315, 3400, 3650, 3710, 4650<br>**ME EN 4000†**<br>Engineering Design I<br>3hr F,S<br>4010 | 4000<br>**ME EN 4010**<br>Engineering Design II<br>3hr F, S |
| **Gen. Ed. Req.** | MATH 1050 or MATH 1080<br>**CHEM 1210**<br>Chemistry<br>4hr F,S,Su*<br>CHEM 1215, MSE 2160 | **Gen. Ed. Req.** | MATH 1310<br>**PHYS 2210**<br>Physics I<br>4hr F,S,Su*<br>1010, 2010, 2030, 2300 MATH 2250, PHYS 2220 | PHYS 2210, MATH 1320<br>**PHYS 2220**<br>Physics II<br>4hr F,S,Su*<br>ECE 2210 | MATH 2250, PHYS 2210<br>**ME EN 2300**<br>Thermo<br>3hr F,S<br>3650, 3710, 4650, 4000 | 2030, 2450, 2300, MATH 2250 & 2210<br>**ME EN 3710**<br>Fluid Mechanics<br>3hr F,S<br>3650, 4000, 4650 | 2300, 3710, MATH 2250 & 3140<br>**ME EN 3650**<br>Heat Transfer<br>3hr F,S<br>4000, 4650 | 2550, 3400, 2300, 3710, 3650<br>**ME EN 4650**<br>TFES Lab<br>3hr L F,S<br>4000 | **Tech Elective**<br>3hr |
| **Gen. Ed. Req.** | CHEM 1210<br>**CHEM 1215**<br>Chemistry Lab<br>1hr L F,S,Su* | **Gen. Ed. Req.** | MATH 1310 & 1320 PHYS 2210<br>**ME EN 2010**<br>Statics<br>3hr F,S,Su*<br>2030, 2650, 3310 | 2010, PHYS 2210, MATH 2250<br>**ME EN 2030**<br>Dynamics<br>3hr F,S,Su*<br>3220, 3710 | PHYS 2220, MATH 2250<br>**ECE 2210**<br>Electrical Engineering<br>3hr L F,S<br>3220 | 1010, 2030, 2450, ECE 2210, MATH 2250<br>**ME EN 3220‡**<br>Dyn Sys & Control<br>3hr F,S<br>3230, 4000 | 2550, 2650, 3220, MATH 3140<br>**ME EN 3230‡**<br>Mechatronics<br>4hr L F,S<br>4000 | **Gen. Ed. Req.** | **Tech Elective**<br>3hr |
| MATH 1010^<br>**MATH 1050**<br>Col. Algebra<br>4hr F,S, Su* | MATH 1050^<br>**MATH 1060**<br>Trigonometry<br>3hr F,S, Su* | MATH (1050&1060) or MATH 1080^<br>**MATH 1310**<br>Engineering Calculus I<br>4hr F,S, Su*<br>1000, 1010, 2010, PHYS 2210, MATH 1320 | MATH 1310<br>**MATH 1320**<br>Engineering Calculus II<br>4hr F,S,Su*<br>PHYS 2220, MATH 2250 | MATH 1320<br>**MATH 2250**<br>Diff Eqs & Linear Algebra<br>4hr F,S,Su*<br>2030,2300, 2450, 3220, 3310, 3650, 3710, ECE 2210, MATH 3140 | MATH 1320 & 2250<br>**MATH 3140**<br>Vector Calc and PDEs<br>3hr F,S,Su*<br>3310, 3710, 3650 | 1010, MATH 1320<br>**ME EN 2550^**<br>Probability & Statistics<br>3hr F,S<br>3230, 4650 | WRTG 2010, ME EN 3xxx<br>**ME EN 3400†**<br>Professional Communication<br>3hr F,S, Su*<br>4000, 4650 | **Tech Elective**<br>3hr | **Tech Elective**<br>3hr |
| | **Gen. Ed. Req.** | | | | | 1000, 2010, MSE 2160<br>**ME EN 2650**<br>Manufacturing for Eng Sys<br>3hr L F,S<br>3000, 3230 | | | |

*recommended prereqs but Math Dept. isn't enforcing prereqs for MATH 1050, 1060 or 1210

THE UNIVERSITY OF UTAH
DEPARTMENT OF MECHANICAL ENGINEERING

## 2021-2022 Flowchart Key, Graduation Requirements, and Department of Mechanical Engineering Policies




**General Education Requirements:**

| | | | |
|---|---|---|---|
| WR2 | FF | BF | HF |
| AI | FF | BF | HF |

**Bachelor Degree Requirements:**

DV♦ IR♦ CW† 2-QI‡

**Gen Ed Notes:**

♦ DV and IR can double count with an FF, HF or BF
†ME EN 3400 meets the CW (Upper Division Writing) requirement;
‡ ME EN 3220 & 3230 meet the QI (Quantitative Intensive) requirement

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

**Admission**

- ❑ See our website for information about admission to the Mechanical Engineering major.

**Graduation Requirements**

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

**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

^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 5/2022