

# Mechanical Engineering



UNIVERSITY of WASHINGTON | BOTHELL  
SCHOOL OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

[Website](#)  
425-352-3746  
STEMADV@UW.edu

- This is a suggested schedule of courses based on degree requirements. The actual degree plan may differ depending on the course of study selected, the number of starting credits, or the starting admission point.
- This guide is not a substitute for academic advising. Contact your academic advisor with questions about scheduling, unique interests, or degree requirements.
- Applicants who are generally competitive to ME will have the following: 1. Prerequisite GPA of 3.5, 2. Cumulative college GPA of 3.5, 3. A positive grade trend with few to no repeats.

|   | Autumn   | Winter   | Spring   |
|---|--|--|--|
| Year 1  | ◆ STMATH 124 - Calculus with Analytical Geometry I                       | ◆ STMATH 125 - Calculus with Analytical Geometry II          | ◆ STMATH 126 Calculus with Analytical Geometry III |
|   | ◆ PHYS 121 - Mechanics   | ◆ PHYS 122 – Electromagnetism                                | ◆ PHYS 123 – Waves                                 |
|   | ❖ VLPA   | ❖ VLPA   | ❖ I & S  |
| Year 2  | Autumn   | Winter   | Spring   |
|   | ◆ B ME 221: Statics  | ◆ B ME 222: Mechanics of Material                            | ◆ B ME 223: Dynamics                               |
|   | B CHEM 143 + 144 Gen. I Chem & Lab                                       | ◆ B WRIT 134 Composition                                     | ◆ B WRIT 135 Research Writing                      |
| ◆ STMATH 324 Multivariable Calculus   | ◆ STMATH 307 Differential Equations                                      | Elective   |  |
| <i>All prerequisites (yellow) should all be complete by the end of the second year at the very latest to stay on track for a 4-year degree program.</i> |  |  |  |
| Year 3  | Autumn   | Winter   | Spring   |
|   | B ME 315 Intro to 3D Modeling, Design and Analysis                       | B ME 301 Introductory Seminar for Mechanical Engineering (1) | B ENGR 310 Computational Physical Modeling         |
|   | B ME 331 Thermodynamics (4)  | B ME 332 Fluid Mechanics (4)                                 | B ME 333 Heat Transfer (4)                         |
|   | B ENGR 320 Computation Physical Modeling (4)                             | B ME 341 Mechanical System Design I (4)                      | B ME 342 Mechanical System Design II (4)           |
| B ENGR 321 Materials Engineering Lab(Can take A, W, or Sp)  | STMATH 390 Probability & Statistics in Engineering(Can take A, W, or Sp) | B ENGR 321 or STMATH 390                                     |  |
| <i>Mechanical Engineering is a cohort-based program, and the upper division coursework must be completed in the order prescribed.</i>                   |  |  |  |
| Year 4  | Autumn   | Winter   | Spring   |
|   | B ME 343 Mechanical System Design III (4)                                | Upper Division Engineering Elective                          | Upper Division Engineering Elective                |
|   | B ME 334 Thermal Fluids Lab (2)  | Upper Division Engineering Elective                          | Upper Division Engineering Elective                |
|   | B ME 494 Innovation, Design, and Entrepreneurship                        | B ME 481 The Citizen Engineer                                | B ME 496 Capstone II (3)                           |
|   | B ME 410 Electrical Power & Machinery (only half the cohort can take)    | B ME 495 Capstone (2)  | Remaining AOK/Degree requirements                  |
|   | B ME 410 (For students who did not take in AUT)                          |  |  |

◆ Prerequisite: Must be completed prior to applying for a major.

❖ may be fulfilled with Discovery Core

All classes are 5 credits unless followed by a parenthesis with a number, indicating the number of credits.

Refer to the time schedule for up to date course offerings; including quarters, days and times

This Map is a suggested sequence of the current curriculum which may be altered to carry out the academic objectives of the University. The University specifically reserves the right to change the student's current map at any time within the student's period of study.

Last updated: 12/10/2020