Mechanical Engineering Graduation Requirements
University of Washington
https://me.washington.edu

Requirement Sheet Key
◆ = Upper-Division Admission Requirements

Mathematics (24 Credits)
◆ MATH 124 (5cr) - Calculus I
◆ MATH 125 (5cr) - Calculus II
◆ MATH 126 (5cr) - Calculus III
MATH 307 (3cr) - Differential Equations
MATH 308 (3cr) - Matrix Algebra
One course from the following:
MATH 309 (3cr) - Linear Analysis
OR
MATH 324 (3cr) - Adv. Multivariable Calculus
(AMATH 351/352/353 may substitute for MATH 307/308/309)

Natural Sciences (25 Credits)
◆ CHEM 142 (5cr) - General Chem I with Lab
◆ CHEM 152 (5cr) - General Chem II with Lab
◆ PHYS 121 (5cr) - Mechanics with Lab
◆ PHYS 122 (5cr) - Electro/Oscillatory with Lab
PHYS 123 (5cr) - Waves with Lab

Written & Oral Communications (12 Credits)
◆ English Comp (5cr) - English Composition
ENGR 231 (3cr) - Intro to Technical Writing
Additional composition writing or ME 354 (4cr)

Visual, Literary & Performing Arts/ Individuals & Society (VLPA/I&S) (24 Credits)
10 credits of VLPA
10 credits of I&S
4 credits of VLPA or I&S
3 credits of Diversity (DIV)
(DIV can overlap with VLPA or I&S)

Engineering Fundamentals (31 Credits)
◆ AA 210 (4cr) - Engineering Statics
◆ CEE 220 (4cr) - Mechanics of Materials
◆ ME 230 (4cr) - Kinematics & Dynamics
AMATH 301 (4cr) - Beg. Scientific Computing
ME 123 (4cr) - Intro to Visualization and CAD
MSE 170 (4cr) - Fundamentals of Materials Science
EE 215 (4cr) - Fundamentals of EE
IND E 315 (3cr) - Probability & Statistics for Engineers
-OR-
MATH/STAT 390 (3cr) - Statistical Methods in Engr. & Sci.

ME Core Courses (45 Credits)
ME 323 (5cr) - Engineering Thermodynamics
ME 331 (4cr) - Intro to Heat Transfer
ME 333 (5cr) - Intro to Fluid Mechanics
ME 354 (5cr) - Mechanics of Materials Lab
ME 355 (4cr) - Intro to Manufacturing Processes
ME 356 (4cr) - Machine Design Analysis
ME 373 (5cr) - Intro to System Dynamics
ME 374 (5cr) - Systems Dynamic Analysis & Design
ME 395 (4cr) - Intro to Mechanical Design
ME 495 (4cr) - Mechanical Engineering Design

Mechanical Option Courses (19 Credits)
See ME Advising Guide online for list of courses.

Total Credits Required for Graduation (180 Credits)

Early Admission Requirements
1. Early Admission is an option for Autumn Quarter only.
2. Students must be enrolled at UW Seattle.
3. MATH 124, 125, & 126 or equivalent.
4. 10 credits of physical sciences + accompanying lab:
CHEM 142, 152
PHYS 121, 122, 123
5. 5 credits of English Composition.
6. 15 of the above credits must have been completed at UW.

Application Deadlines
Early Admission and Upper-Division - July 1st
**This is a sample four-year plan. It is intended to provide a framework for students to reference as they create their own individual academic plan.**

### Freshman - Autumn Quarter
- Math 124 - Calculus I 5
- Chem 142 - Chem & Lab I 5
- English Composition 5

**Quarter Total:** 15

### Freshman - Winter Quarter
- Math 125 - Calculus II 5
- Chem 152 - Chem & Lab II 5
- VLPA/I&S 5

**Quarter Total:** 15

### Freshman - Spring Quarter
- Math 126 - Calculus III 5
- PHYS 121 - Mechanics & Lab I 5
- VLPA/I&S 5

**Quarter Total:** 15

### Sophomore - Autumn Quarter
- AA 210 - Engineering Statics 4
- PHYS 122 - Electo & Lab I 5
- ME 123 - Intro to Visualizn. & CAD 4
- MATH 307 - Differential Equations 3

**Quarter Total:** 16

### Sophomore - Winter Quarter
- ME 230 - Kinematics/Dynamics 4
- MATH 308 - Matrix Algebra 3
- PHYS 123 - Waves & Lab I 5
- VLPA/I&S 4

**Quarter Total:** 16

### Sophomore - Spring Quarter
- CEE 220 - Mechanics of Materials 4
- MATH 309 - Linear Analysis 4
- PHYS 121 - Mechanics & Lab I 5
- ENGR 231 - Technical Writing 3

**Quarter Total:** 14

### Junior - Autumn Quarter
- ME 323 - Thermodynamics 5
- MSE 170 - Fund. of Materials Science 4
- EE 215 - Fund. of Electrical Engr. 4
- VLPA/I&S 3

**Quarter Total:** 16

### Junior - Winter Quarter
- ME 333 - Intro to Fluid Mechanics 5
- ME 354 - Behavior of Engr Materials 5
- ME 373 - Intro to System Dynamics 5
- VLPA/I&S 4

**Quarter Total:** 15

### Junior - Spring Quarter
- ME 355 - Intro to Manuf. Processes 4
- ME 374 - System Dynamics 5
- IND E 315 - Prob. & Stats for Engrs. 3
- ME Senior Elective 4

**Quarter Total:** 14

### Senior - Autumn Quarter
- ME 395 - Intro to Heat Transfer 4
- ME 395 - Intro to Mech. Design 4
- ME Senior Elective 4
- VLPA/I&S 3

**Quarter Total:** 15

### Senior - Winter Quarter
- ME 356 - Machine Design Analysis 4
- ME Senior Elective 3
- ME Senior Elective 4
- Free Elective 4

**Quarter Total:** 15

### Senior - Spring Quarter
- ME 495 - Mechanical Engr. Design 4
- ME Senior Elective 4
- VLPA/I&S 4

**Quarter Total:** 12

**Bold face** courses are required for upper-division admission.

See ME Advising Guide online for list of senior electives.

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