

MECHANICAL ENGINEERING – 4 Year Plan

FIRST YEAR

Academic Year: 2025-2026

SECOND YEAR

Fall – 14 Cr

Winter– 14-15 Cr

Spring– 14 Cr

Fall – 14 Cr

Winter– 14 Cr

Spring– 16 Cr

**ENGR
110+115**

The OSU Engr
Student
F, W, S (3)

ENGR 102

Dsgn Thinking &
Problem Solving
F, W, S (3)

ENGR 103

Computations &
Algorithms
Engr-102
F, W, S (3)

ENGR-211

Statics
MTH-252
F, W, S (3)

ME-217

Introduction to
Dynamics
*ENGR-103, 211;
PH-211*
W, S (4)

ENGR-213

Strengths of Materials
ENGR-211
F, W, S, U (3)

WR-121z

English Comp.
CORE ED
Alpha Restricted
F, W, S, U (4)

**COMM-
111Z or 114**

Speech
CORE ED: Comm
F, W, S, U (4/3)

CORE ED:

Arts & Humanities
General
F, W, S, U (3)

ENGR-248

Engineering
Graphics & 3D
Modeling
F, W, S (3)

ENGR-201

Electrical
Fundamentals I
MTH-252
F, W, S (3)

ENGR-202

Electrical
Fundamentals II
ENGR-201
F, W, S (3)

MTH-251

Differential Calc
MTH-112z
F, W, S, U (4)

MTH-252

Integral Calc
MTH-251
F, W, S, U (4)

MTH-254

Vector Calc
MTH-252
F, W, S (4)

MTH-256

Differential EQ.
MTH-254
F, W, S (4)

MTH-341

Linear Algebra
MTH-254
F, W, S, U (3)

ST-14

Stats for Engineers
MTH-252
F, W, S, U (3)

CH-201

Chemistry for
Engineers I
MTH-111z
F, W (3)

CH-202

Chemistry for
Engineers 2
CH-201
W, S (3)

PH-211

Physics w/Calc 1
MTH-251
F, W, S, U (4)

PH-212

Physics w/Calc 2
PH-211
F, W, S, U (4)

PH-213

Physics w/Calc 3
PH-212, MTH-254
F, W, S, U (4)

ECON-201 or 202

Micro or Macro
Economics
F, W, S (4)

CH-204

Chemistry for
Engineers Lab
F, W (1)

ME-203

Computational
Methods
MTH-254, ENGR-103
F, W, S (3)



F, W, S, U – Term course is offered (U = summer)

(X)- Number of credits

Alpha Restricted: WR-121z limits students to Terms by last name: Fall: A-G; Winter: H-N; Spring: O-Z

Course In *Italics*- Pre-req (or co-req)

Rev. 4/2025

MECHANICAL ENGINEERING – 4 Year Plan

THIRD YEAR

Academic Year: 2025-2026

FOURTH YEAR

Fall – 16 Cr

Winter– 18 Cr

Spring– 15 Cr

Fall – 14 Cr

Winter– 16 Cr

Spring– 15 Cr

ME-310

Thermo I

ME-217, MTH-256

F, W, S (4)

ME-330

Intro to Fluids
& Heat Transfer

ME-310

F, W, S (4)

ENGR-390

Engineering Economy

F, W, S (3)

MIME-497

MIME Capstone Design

MATS-321, ME-217, 330, 382, 383,

ME 351, ST-314, WR-227z

F, W (4)

MIME-498

MIME Capstone Design

*MIME-497(Must be taken
consecutively)*

W, S (4)

**ME Science
option elective**

F, W, S (4)

ME-320

Systems Dynamics
& Control

ME-217

F, W, S (4)

ME-373

Mechanical
Engineering Methods

MTH-256, ENGR-103, MTH 345, ME 203

F, W, S (4)

ME-351

Instrumentation &
Measurement

ENGR-202, 213

ME-217

F, W, S (4)

MFGE-336

(ME Option)

Production Engineering

ENGR-213, 248

MATS-321

F, W, S (4)

ME-333

Thermodynamics II

ME-310

W (4)

**ME Science
option elective**

F, W, S (4)

ME-382

Introduction to
Design

ME-217, ENGR 248, ME 213

F, W, S (4)

ME-316

Mechanics of
Materials

MTH-256, ENGR-103

F, W, S (3)

ME-383

Mechanical Component
Design

ME-217, 316

ENGR-213

F, W, S (4)

Core ED
Diff, Power, & Oppression:
Foundation
F, W, S, U (3)

**ME Science
option Elective**
F, W, S (4)

Core ED
ENGR 300: Inclusive &
Equit. Engineering
F, W, S, U (3)

MATS-321

Introduction to
Material Science

CH-202 or 232

F, W, S (4)

MATS-322

(MES Option)
Mechanical Properties
of Materials

MATS-321, ENGR-213

F, W, S (4)

WR-227z

Technical Writing

Bacc Core: WR2

Sophomore Standing

F, W, S, U (4)

Core ED

Arts & Humanities

Global

F, W, S, U (3)

**400 level
MIME elective**
F, W, S, U (4)

Core ED

Seeking solutions

F, W, S, U (4)

Core ED

Arts & Humanities Globa

F, W, S, U (3)

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Course In *Italics*- Pre-req (or co-req)

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