

MECHANICAL ENGINEERING – 4 Year Plan

FIRST YEAR

2024-2025 Catalog Year

SECOND YEAR

Fall – 14 Cr

Winter– 15-16 Cr

Spring– 15 Cr

Fall – 14 Cr

Winter– 13 Cr

Spring– 16 Cr

ENGR 100

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.
Bacc Core: WR 1
Alpha Restricted
F, W, S, U (4)

COMM-111Z or 114

Speech
Bacc Core: Comm
F, W, S, U (4/3)

Bacc Core

WC, DPD, CD, L&A
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 1
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)

HHS-231

Lifetime Fitness & Health
Bacc Core
F, W, S, U (2)

PAC

Physical Activity
Bacc Core
F, W, S, U (1)

ME-203

Computing Techniques
MTH-254, ENGR-103
F, W, S (3)

MTH-251 Start



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

(X)- Number of credits

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

WC, DPD, CD, L&A, SPI: Choice of Bacc Core Perspective

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

MECHANICAL ENGINEERING – 4 Year Plan

THIRD YEAR

2024-2025 Catalog Year

FOURTH YEAR

Fall – 16 Cr

Winter– 15 Cr

Spring– 15 Cr

Fall – 17 Cr

Winter– 15 Cr

Spring– 15 Cr

ME-310
Thermo I
ME-217, MTH-256
F, W (4)

ME-330
Intro to Fluids
& Heat Transfer
ME-310
W, S (4)

ENGR-390
Engineering Economy
F, W, S (3)

MIME-497
MIME Capstone Design
*MATS-321, ME-217, 330, 382, 383,
ENGR-390, ST-314, WR-227z*
F, W (4)

MIME-498
MIME Capstone Design
*MIME-497 (Must be taken
consecutively)*
W, S (4)

ME Option
F, W, S (4)

ME-320
Systems Dynamics
& Control
ME-217
F, W (4)

ME-373
Mechanical
Engineering Methods
MTH-256, ENGR-103
F, W, S (4)

ME-351
Instrumentation &
Measurement
*ENGR-202, 213
ME-217*
F, W, S (4)

MFGE-336
(MES Option)
Production Engineering
*ENGR-213, 248
MATH-321*
F, W, S (4)

ME 333
(MES Option)
Thermodynamics
W, S (4)

ME Option
F, W, S (4)

ME-382
Introduction to
Design
ME-217
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)

Bacc Core
WC, DPD, CD, L&A
F, W, S, U (3)

ME Option
F, W, S (4)

Bacc Core
WC, DPD, CD, L&A
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)

Synthesis
CGI or STS
Bacc Core
F, W, S, U (3)

Synthesis
CGI or STS
Bacc Core
F, W, S, U (3)

Bio Science
Bacc Core
F, W, S, U (4)

Bacc Core
WC, DPD, CD, L&A
F, W, S, U (3)

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

(X)- Number of credits

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

WC, DPD, CD, L&A, SPI: Choice of Bacc Core Perspective

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