

# OREGON STATE UNIVERSITY MECHANICAL ENGINEERING

FIRST YEAR

2023-2024 Catalog Year

SECOND YEAR

Fall                      Winter                      Spring                      Fall                      Winter                      Spring

**ENGR 100**  
The OSU ENGR  
Student  
F, W, S, U (3)

**ENGR 102**  
Dsgn Thinking &  
Problem Solving  
F, W, S, U (3)

**ENGR 103**  
Computations &  
Algorithms  
F, W, S, U (3)  
*ENGR 102*

**ENGR 211**  
Statics  
F, W, S, U (3)  
*MTH 252*

**ME 217**  
Introduction to  
Dynamics  
W, S (4)  
*ENGR 103, 211,  
PH 211*

**ENGR 213**  
Strengths of  
Materials  
F, W, S, U (3)  
*ENGR 211*

**WR 121Z**  
English Comp.  
Bacc Core: WR 1  
F, W, S, U (4)

**COMM 111Z or  
114**  
Bacc Core:  
Comm  
F, W, S, U (4/3)

**Bacc Core:**  
Cultural Diversity  
F, W, S, U (3)

**ENGR 248**  
Engineering  
Graphics & 3D  
Modeling  
F, W, S (3)

**ENGR 201**  
Electrical  
Fundamentals I  
F, W, S (3)  
*MTH 251, 252*

**ENGR 202**  
Electrical  
Fundamentals II  
F, W, S (3)  
*ENGR 201*

**MTH 251**  
Differential Calc  
Bacc Core: Math  
F, W, S, U (4)  
*MTH 112*

**MTH 252**  
Integral Calculus  
F, W, S, U (4)  
*MTH 251*

**MTH 254**  
Vector  
Calculus  
F, W, S, U (4)  
*MTH 252*

**MTH 256**  
Differential  
Equations  
F, W, S, U (4)  
*MTH 254*

**MTH 341**  
Linear Algebra  
F,W,S,U (3)  
*MTH 254*

**ST 314**  
Stats for  
Engineers  
F, W, S, U (3)  
*MTH 252*

**CH 201**  
Chemistry for  
Engineers 1  
F, W (3)  
*MTH 111*

**CH 202**  
Chemistry for  
Engineers 2  
W, S (3)  
*CH 201, 121 or 231*

**PH 211**  
Physics w/ Calc  
Bacc Core:  
PhySci  
F,W,S,U (4)

**PH 212**  
Physics w/ Calc 2  
Bacc Core:  
PhySci  
F,W,S,U (4)  
*PH 211*

**PH 213**  
Physics w/ Calc 3  
F,W,S,U (4)

**ECON 201 or 202**  
Micro or Macro  
Economics  
Bacc Core: SPI  
F, W, S, U (4)

**HHS 231 + PAC**  
Bacc Core:  
Lifetime Fitness  
& Health,  
Physical Activity  
F, W, S, U (2 + 1)

**ME 203**  
Computing  
Techniques  
F, W, S (3)  
*MTH 254, ENGR 103*

**KEY:**

**F, W, S, U** – Term Course is offered

**(X)**- Number of Credits

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

# OREGON STATE UNIVERSITY MECHANICAL ENGINEERING

THIRD YEAR

2023-2024 Catalog Year

FOURTH YEAR

Fall

Winter

Spring

Fall

Winter

Spring

**ME 310**

Thermo I  
F, W (4)

*ME 217, MTH 256*

**ME 330**

Intro to Fluids  
and Heat  
Transfer  
W, S (4)  
*ME 310*

**ENGR 390**

Engineering  
Economy  
F, W, S (3)

**MIME 497**

MIME Capstone  
Design  
F, W (4)

*MATS 321, ME 217, 330, 382,  
383, ENGR 390, ST 314, WR 227Z*

**MIME 498**

MIME Capstone  
Design  
W, S (4)

*MIME 497; Capstone must be  
taken consecutively*

**Restricted  
Elective\*\***

F, W, S (4)

**ME 320**

Systems  
Dynamics &  
Control  
F, W (4)

*ME 217*

**ME 373**

Mechanical  
Engineering  
Methods  
F, W, S (4)  
*MTH 256,  
ENGR 103*

**ME 351**

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

**ME Option  
MFGE 336**

Production  
Engineering  
F, W, S (4)  
*ENGR 213, 248,  
MATS 321*

**ME Option  
ME 312**

Thermodynamics  
W, S (4)  
*ME 310*

**Restricted  
Elective\*\***

F, W, S (4)

**ME 382**

Introduction to  
Design  
F, W, S (4)  
*ENGR 248, 213,  
ME 217*

**ME 316**

Mechanics of  
Materials  
F, W, S (3)  
*ENGR 213, MTH 256*

**ME 383**

Mechanical  
Component  
Design  
F, W, S (4)  
*ENGR 213, ME 217,  
316*

**Bacc Core:**

Difference  
Power  
Discrimination\*  
F, W, S, U (3)

**Restricted  
Elective\*\***

F, W, S (4)

**Bacc Core:**  
Western Culture  
F, W, S, U (3)

**MATS 321**

Introduction to  
Material Science  
F, W, S (4)  
*CH 202 or 232*

**MES Option  
MATS 322**

Mechanical  
Properties of  
Materials  
F, W, S (4)  
*ENGR 213, MATS  
321*

**WR 227Z**

Technical  
Writing  
Bacc Core: WR2  
F, W, S, U (4)  
*WR 121*

**Bacc Core:**

Science, Tech &  
Society\*  
F, W, S, U (3)

**Bacc Core:**

Contemporary  
Global Issues  
F, W, S, U (3)

**Bacc Core:**  
Biological Sci +  
Lab  
F, W, S, U (4)

**Bacc Core:**

Lit & Arts  
F, W, S, U (3)

**KEY:**

F, W, S, U – Term Course is offered  
(X)- Number of Credits

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

\***Bacc Core**- For list of Bacc Core course options visit <https://catalog.oregonstate.edu/earning-degrees/bcc/>

\*\***Technical Electives**- Students choose any Upper Division Engineering Course. Speak with your academic advisor for Technical Elective Course options.

**Students will choose 1 (one) option:** Computational Engineering, Aerospace, Mechanical Engineering Science, Robotic Control, Product Design and Manufacturing, Materials Design and Manufacturing, Energy Fluids Systems