

OREGON STATE UNIVERSITY CHEMICAL ENGINEERING

FIRST YEAR

2026-2027 Catalog Year

SECOND YEAR

Fall
Winter
Spring
Fall
Winter
Spring

ENGR 110 & 115
Transitions,
ENGR
Orientation 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

CBEE 211
Material
Balances
F, W, S, U (3)
MTH 252

CBEE 212
Energy Balances
W, S (3)
MTH 256 Co-req

CBEE 213
Process Analysis
S, U (4)
*CBEE 212 or
280*

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)

Core Education
Social Sciences
F, W, S, U (3)

MTH 256
Differential
Equations
F, W, S, U (3)
MTH 254

MTH 264+ 265
Matrix Algebra &
Series
F, W, S, U (2+2)
MTH 252

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

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

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

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

PH 211
Physics w/ Calc 2
F, W, S, U (4)
MTH 252 (co-req)

PH 212
Physics w/ Calc 2
F, W, S, U (4)
PH 211

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

CH 221Z*
Chemistry 1
F, W (4)
MTH 111

CH 222Z*
Chemistry 2
W, S (4)
CH 201, 121 or 221

CH 223Z*
Chemistry 3
F, S (4)

CH 331
Organic
Chemistry
FW(4)
CH 223

**CHE Approved
Biological
Science**
BI 103, 221, or
MB 230 F, W, S,
U (3)

WR 227Z
Technical
Writing
Core Education:
WR2
F, W, S, U (4)

CH 227Z*
Chemistry Lab 1
F, W (1)

CH 228Z
Chemistry for
Engineers Lab 2
W, S (1)

CH 229Z*
Chemistry Lab 3
F, S (1)

KEY:

F, W, S, U – Term Course is offered

(X)- Number of Credits

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

**CH 201/204, CH 202/205, and CH 203/263 and Advanced chemistry with lab meet CHE chemistry requirement*

OREGON STATE UNIVERSITY ENVIRONMENTAL ENGINEERING

THIRD YEAR

2025-2026 Catalog Year

FOURTH YEAR

Fall
Winter
Spring
Fall
Winter
Spring

CHE 311
Thermo
F W 3
CBEE 212, MTH 265

CHE 332
Transport 2
W, S(3)
CHE 311 & 331

CHE 333
Transport 3
S (3)
CHE 331, CHE 332

CHE 443
Reaction
Engineering
F(4)
CHE 312, CHE 333

CHE 431
Chemical Plant
Design 1
W(3)
CHE 312, 411, 443

CHE 432
Chemical Plant
Design 2
S (3)
CHE 431

CHE 331
Transport 1
FW(3)
CBEE 212

CHE 312
Thermo 2
W, S (3)
CHE 311

CHE 334
Transport lab
S (3)
CBEE 213, CHE 333 co req

**Advanced
Chemistry
Lecture Elective**
F, W, S (3-4)

CHE 415
CHE Lab
W (3)
CBEE 414, CHE 361, 411, 443

**Engineering
Elective**
F, W, S (4)

CHE 320
Engineering
Ethics
F 3
CBEE 212

CHE 361
Dynamics and
Simulation
W(3)
MTH 256, CHE 331

ENGR 330
Advanced
Difference, Power,
and Oppression
F, W, S, U (3)

CBEE 414
Process Lab
F (3)
CBEE 213, CHE 311, CHE 333

**Engineering
Elective**
F, W, S (4)

Core Education
Art & Humanities
Global F, W, S, U
(3)

Core Education
Difference,
Power, and
Oppression
F, W, S, U (3)

Core Education
Art & Humanities
General F, W, S, U
(3)

CHE 461
Process Control
S(3)
CHE 331, CHE 332, CHE 361

CHE 411
Mass Transfer
Operations
F,(4)
CHE 333, CHE 312

**Chemistry with
Lab Elective**
Only if CH 201-
203 series taken
F, W, S, U (3)

**Advanced
Chemistry Lab
Elective**
F, W, S (3-4)

CH 440
Physical
Chemistry 1
F, W, (3)

CH 441
Physical
Chemistry 2
W, S (3)

CH 442
Physical
Chemistry 3
S, U (3)

Core Education
Seeking
Solutions
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)

***Core Education**- For list of Core Education course options visit <https://coreeducation.oregonstate.edu/students/core-education-students-starting-summer-2025-and-after>

****Engineering Electives**- Students choose any Approved Upper Division Engineering Course. Speak with your academic advisor for Technical Elective Course options. 9 credits may be lower division