

OREGON STATE UNIVERSITY ARCHITECTURAL ENGINEERING

2023-2024 Catalog Year

FIRST 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

CCE 207

CCE Seminar
F (1)
ENGR 103

CCE 201

Graphics & Design
F, W (3)
MTH 111Z

CCE 203

Virtual Design & Construction
W, S (3)
CCE 201 or ENGR 248

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)

**ECON 201, AEC 250,
or GEOG 240/250**
Economics
Bacc Core: SPI
F, W, S, U (3/4)

PH 211

Physics w/ Calc
Bacc Core: PhySci
F, W, S, U (4)
MTH 251 (recommended)

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)
PH 212 & MTH 254 (recommended)

MTH 251

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

MTH 252

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

MTH 254

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

MTH 264 + 265

Matrix Algebra and Power Series
F, W, S, U (2+2)
MTH 252

MTH 256

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

ST 314

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

CH 201

Chemistry for Engineers 1
F, W (3)
MTH 111Z

CH 202

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

Bacc Core: Western Culture*

F, W, S, U (3)

ENGR 211

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

ENGR 213

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

Bacc Core: Difference, Power & Discrimination*

F, W, S, U (3)

HHS 231

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

CH 205

Chemistry Lab
W, S (1)
CH 202 (co-req)

PAC

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

Bacc Core: Cultural Diversity*

F, W, S, U (3)

ART 321/322/323

Arch. History
Bacc Core: L&A
F, W, S (3)

WR 227Z

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

KEY:
F, W, S, U – Term course is offered (U = summer)
(X)- Number of credits
Course In Italics- Pre-req (or co-req)

THIRD YEAR			FOURTH YEAR		
Fall	Winter	Spring	Fall	Winter	Spring
CEM 442 Building Construction Mgt F, S (4) <i>CCE 207</i>	CE 381 Structural Theory 1 F, W (4) <i>ENGR 213</i>	CE 382 Structural Theory 2 W, S (4) <i>CE 381, MTH 264/265</i>	CE 383 Design of Steel Structures F, W (4) <i>CE 382</i>	ARE 418 Capstone 1 W (4) <i>CE 382, ARE 341 & 361</i>	ARE 419 Capstone 2 S (3) <i>ARE 418</i>
CEM 471 Electrical Facilities F, W (4) <i>CCE 207</i>	ARE 361 Fundamentals for Light Design W (4) <i>CEM 471</i>	ENGR 201 Electrical Fundamentals F, W, S, U (3) <i>MTH 251 & 252</i>	ARE 451 Advanced Construction F (4) <i>CEM 442</i>	CCE 422 Green Building Materials W, S (3) <i>CCE 321</i>	Bacc Core: Contemporary Global Issues* F, W, S, U (3)
CE 311 Fluid Mechanics F, W (4) <i>MTH 256, ENGR 211</i>	ARE 341 Fundamentals of HVAC W (4) <i>CE 311</i>	CCE 321 CCE Materials F, W, S, U (4) <i>ENGR 213</i>	CE 420 Engineering Planning F, W (4) <i>Senior Standing</i>	Bacc Core: Biological Sci* F, W, S, U (4)	Bacc Core: Science, Tech & Society* F, W, S, U (3)
ARE 310 Architecture Studio F (4) <i>CCE 207</i>	CEM 472 Mechanical Facilities W, S (3) <i>CCE 207</i>	Focus Area Tech Elective** F, W, S (3/4)	Focus Area Tech Elective** F, W, S (3/4)	Focus Area Tech Elective** F, W, S (3/4)	Focus Area Tech Elective** F, W, S (3/4)

***Bacc Core Course Recommendations:**

Biological Sciences: SUS 102, BI 101; **Western Culture:** PHL 205, AEC 253, ART 210

Difference, Power and Discrimination: ES 353, GEOG 203, GEO 309, SUS 331

Contemporary Global Issues: BA 432, BI 301, FES 365, GEOG 300, GEOG 331, H 388, PH 440, SUS 350

Science, Technology & Society: PH 332, ENGR 350, PPOL 441, WSE 385

****Focus Area Elective Recommendations (14 Credits Required for Graduation):**

Lighting Focus: ARE 461: Lighting Design For Built Environment 1, ARE 462: Lighting Design For Built Environment 2, ARE 499: Daylighting, ARE 499: Parametric Design

HVAC Focus: ARE 499: Building Energy Modeling, ARE 499: Indoor Air Quality; ARE 499: Parametric Design, 4th course: choice

Structures Focus: CE 372: Geotechnical Engineering, CE 481: Reinforced Concrete, CE 484: Wood Design, 4th course: choice