

OREGON STATE UNIVERSITY ARCHITECTURAL ENGINEERING

2023-2024 Catalog Year

FIRSTYEAR

SECONDYEAR

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 111

CCE 203

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

WR 121

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

**COMM 111
or 114**

Bacc Core: Comm
F, W, S, U (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 252 (co-req)

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

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 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 111

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

Strengths 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 121

KEY:

F, W, S, U – Term Course is offered

(X)- Number of Credits

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

THIRD YEAR			FOURTH YEAR		
Fall	Winter	Spring	Fall	Winter	Spring
<p>CEM 442 Building Construction Mgt F, S (4) CCE 207</p>	<p>CE 381 Structural Theory 1 F, W (4) ENGR 213</p>	<p>CE 382 Structural Theory 2 W, S (4) CE 381, MTH 264/265</p>	<p>CE 383 Design of Steel Structures F, W (4) CE 382</p>	<p>ARE 418 Capstone 1 W (4) CE 382, ARE 341 & 361</p>	<p>ARE 419 Capstone 2 S (3) ARE 418</p>
<p>CEM 471 Electrical Facilities F, W (4) CCE 207</p>	<p>ARE 361 Fundamentals for Light Design W (4) CEM 471</p>	<p>ENGR 201 Electrical Fundamentals F, W, S, U (3) MTH 251</p>	<p>ARE 451 Advanced Construction F (4) CEM 442</p>	<p>CCE 422 Green Building Materials W, S (3) CCE 321</p>	<p>Bacc Core: Contemporary Global Issues* F, W, S, U (3)</p>
<p>CE 311 Fluid Mechanics F, W (4) MTH 256 & ENGR 213</p>	<p>ARE 341 Fundamentals of HVAC W (4) CE 311</p>	<p>CCE 321 CCE Materials F, S, U (4) ENGR 213 & ST 314</p>	<p>CE 420 Engineering Planning F, W (4)</p>	<p>Bacc Core: Biological Sci* F, W, S, U (4)</p>	<p>Bacc Core: Science, Tech & Society* F, W, S, U (3)</p>
<p>ARE 310 Architecture Studio F (4) CCE 207</p>	<p>CEM 472 Mechanical Facilities W, S (3) CCE 207</p>	<p>Focus Area Tech Elective** F, W, S (3/4)</p>	<p>Focus Area Tech Elective** F, W, S (3/4)</p>	<p>Focus Area Tech Elective** F, W, S (3/4)</p>	<p>Focus Area Tech Elective** F, W, S (3/4)</p>

***Bacc Core Course Recommendations:**

Biological Science: SUS 102;

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