OREGON STATE UNIVERSITY ARCHITECTURAL ENGINEERING

2023-2024 Catalog Year

FIRST YEAR

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*
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)
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*
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)
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)

SECOND YEAR

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

Revised 1/2024