

# OREGON STATE UNIVERSITY ARCHITECTURAL ENGINEERING

FIRSTYEAR

2026-2027 Catalog Year

SECONDYEAR

Fall

Winter

Spring

Sample Plan

Fall

Winter

Spring

**ENGR 110+115**  
Transitions &  
The OSU Engr Student  
\*Core Ed: Transitions  
F, W, S, U (2+1)

**ENGR 102**  
Design Engineering  
\*Core Ed: Beyond OSU I  
F, W, S, U (3)  
*ENGR 110 (co-req)*

**ENGR 103**  
Engineering Computation  
F, W, S, U (3)  
*ENGR 102 &  
MTH 112Z (co-req)*

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

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

**WR 227Z**  
Technical Writing  
\*Core Ed: WR Elevation  
F, W, S, U (4)  
*WR 121Z*

**MTH 251Z**  
Differential Calculus  
\*Core Ed: Quantitative Lit.  
F, W, S, U (4)  
*MTH 112Z*

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

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

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

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

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

**CH 201+204**  
Chem for Engr 1 & Lab  
\*Core Ed: Scientific Inquiry  
F, W (3+1)  
*MTH 111Z*

**CH 202**  
Chemistry for  
Engineering 2  
W, S (3)  
*CH 201*

**ECON 201Z,  
ECON 202Z, or AEC 250**  
\*Core Ed: Social Science  
F, W, S, U (4)

**PH 211**  
Physics with Calculus 1  
F, W, S, U (4)  
*MTH 252Z (co-req)*

**PH 212**  
Physics with Calculus 2  
F, W, S, U (4)  
*PH 211 & MTH 252Z*

**PH 213**  
Physics with Calculus 3  
F, W, S, U (4)  
*PH 212*

**WR 121Z**  
Composition I  
\*Core Ed: WR Foundations  
F, W, S, U (4)

**COMM 111Z,  
114, or 218Z**  
\*Core Ed: Communication  
F, W, S, U (3-4)

**Basic Science<sup>^</sup>**  
\*Core Ed: Scientific Inquiry  
F, W, S, U (4)

**ART 209**  
Global Architectures  
\*Core Ed: A&H - Global  
F, S, U (3)

**CCE 201**  
Graphics & Design  
F, W (3)  
*MTH 111Z*

**CCE 203**  
Virtual Design &  
Construction  
W, S (3)  
*CCE 201*

**Core Ed**  
+Difference, Power, &  
Oppression-Foundations  
F, W, S, U (3)

**CCE 207**  
Building Your Career  
\*Core Ed: Beyond OSU II  
F (1)  
*ENGR 103*

**KEY**

**F, W, S, U:** Term course is planned to be offered as of spring 2026. Includes online offerings. See [classes.oregonstate.edu](https://classes.oregonstate.edu) for current schedule. **(X):** Number of credits. **Course in italics:** Prerequisite (or co-requisite).

\*Major requirement that can double count with Core Ed category listed. Note: Transfer students take ENGR 310 to satisfy Transitions requirement.

+Core Ed choice. Student chooses course from category listed. For options, visit [catalog.oregonstate.edu/core-education](https://catalog.oregonstate.edu/core-education).

<sup>^</sup>Basic Science: Student chooses an additional Scientific Inquiry & Analysis Core Ed course (lecture & lab) *except* CH 121, CH 221Z+227Z, or PH 201.

# OREGON STATE UNIVERSITY ARCHITECTURAL ENGINEERING

2026-2027 Catalog Year

THIRD YEAR

FOURTH YEAR

Fall

Winter

Spring

Fall

Winter

Spring

**CE 311**

Fluid Mechanics  
F (4)  
*MTH 256, ENGR 211,  
& PH 213*

**ARE 341**

Fundamentals of HVAC  
W (4)  
*CE 311*

**CCE 321**

CCE Materials  
F, W, S (4)  
*ENGR 213*

**CE 383**

Design of Steel Structures  
F, W (4)  
*CE 382*

**CE 418+ARE 417**

Professional Practice  
\*Core Ed: WR Intensive  
W (3+1)  
*See Notes^*

**ARE 419**

ARE Design  
S (3)  
*ARE 418^*

**CEM 471**

Electrical Facilities  
F (4)  
*CCE 207*

**ARE 361**

Fundamentals for Lighting Design  
W (4)  
*CEM 471*

**CEM 472**

Mechanical Facilities  
F, S (3)  
*CCE 207*

**ARE 451**

Advanced Building Construction Methods  
F (4)  
*CEM 442*

**CCE 422**

Green Building Materials  
F, W (3)  
*CCE 321*

**Core Ed**

+Seeking Solutions  
F, W, S, U (3)  
*Junior Standing*

**CEM 442**

Building Construction Management  
F, S, U (4)  
*CCE 207*

**CE 381**

Structural Theory I  
F, W, S (4)  
*ENGR 213*

**CE 382**

Structural Theory II  
F, W, S (4)  
*MTH 264+265 &  
CE 381*

**CE 420**

Engineering Planning  
F, W, U (4)  
*Junior or Senior Standing*

**ENGR 330**

Inclusive & Equitable Engr  
\*Core Ed: DPO-Advanced  
F, W, S (3)  
*Junior Standing*

**Core Ed**

+Arts & Humanities: General  
(No ART Classes^)  
F, W, S, U (3)

**ARE 310**

Architecture Studio  
F (4)  
*Junior Standing*

**ENGR 201**

Electrical Fundamentals I  
F, W, S, U (3)  
*MTH 251Z & 252Z*

**Technical Elective^**

F, W, S (4)

**Technical Elective^**

F, W, S (4)

**Technical Elective^**

F, W, S (3)

**Technical Elective^**

F, W, S (3)

**Minor Class or General Elective^**

F, W, S, U (4)

**^NOTES:**

**CE 418+ARE 417 prerequisites:** ARE 341, ARE 361, CE 382, & one additional course from ARE 441, ARE 461, CE 383, and CE 481.

**CE 418+ARE 417 & ARE 419:** Capstone course series that must be taken in consecutive terms.

**Arts & Humanities: General** cannot be an ART course if ART 209 is applying to Arts & Humanities: Global requirement. General and Global courses must be in different subjects.

**Technical Electives:** Students take 14 credits (4-5 classes) of technical electives. Discuss with your advisor or select from this list: <https://beav.es/GjC>.

**Minor Class or General Elective:** Minors are optional. General electives only required if short of 180 total credits.