

ARCHITECTURALENGINEERING

FIRST YEAR

Academic Year: 2022-2023

SECOND YEAR

Fall

Winter

Spring

Fall

Winter

Spring

ENGR 100
Engineering Orientation
F, W, S, U (3)

ENGR 102
Problem Solving & Technology
F, W, S, U (3)

ENGR 102
↓
ENGR 103
Computation & Algorithmic Thinking
F, W, S, U (3)

ENGR 103
↓
CCE 207
CCE Seminar
F (1)

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

CCE 201 or ENGR 248
↓
ARE 203
Intro to Virtual Des/ Construction
W, S (3)

MTH 111*
↓
CH 201
Chemistry for Engineers
F, W (3)

PHL 205 or AEC 253
BaccCore: Western Cult
F, W, S, U (4)

MTH 251
↓
PH 211
Physics w/Calc
BaccCore: Phys Science
F, W, S, U (4)

MTH 251 & PH 211
↓
PH 212
Physics w/Calc
BaccCore: Phys Science
F, W, S, U (4)

WR 121
↓
WR 327
Technical Writing
BaccCore: Writing II
F, W, S, U (3)

BaccCore: Biological Science[^]
F, W, S, U (4)

MTH 112
↓
MTH 251
Differential Calculus
BaccCore: Math
F, W, S, U (4)

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

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

MTH 252
↓
MTH 264 (2) +265 (2)
Matrix and Power Series
F, W, S, U (4)

MTH 254
↓
MTH 256
Applied Differential Eq.
F, W, S, U (4)

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

WR 121
English Composition
BaccCore: Writing I
F, W, S, U (4)

COMM 111 or 114
BaccCore: Comm
F, W, S, U (3)

AEC 250, GEOG 240/250, ECON 201
BaccCore: SPI
F, W, S, U (3)

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

ENGR 211
↓
ENGR 213
Strengths of Materials
F, W, S, U (3)

ENGR 211 & PH 211
↓
ENGR 212
Dynamics
F, W, S, U (3)

HHS 231
BaccCore: Lifetime Fitness & Health
F, W, S, U (2)

PAC
BaccCore: Physical Activity Course
F, W, S, U (1)

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BaccCore: Cultural Diversity
F, W, S, U (3)

MTH 251 & MTH 252
↓
ENGR 201
Electrical Fund I
F, W, S, U (3)

ART 321, ART 322, ART 323
BaccCore: Lit and Arts
F, W, S (3)

16

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16

(X) The number of credits for the course.

[^] Recommended – SUS 102

F, W, S, U Represents the term the course is offered (Fall, Winter and Spring, sUmmer term respectively)

ARCHITECTURALENGINEERING

THIRD YEAR

Academic Year: 2022-2023

FOURTH YEAR

Fall

Winter

Spring

Fall

Winter

Spring

CCE 207

CEM 442
Building Const. Management
F, S (4)

ENGR 213

CE 381
Structural Theory I
F, W (4)

CE 382, MTH 264/265

CE 382
Structural Theory II
W, S (4)

CE 382

CE 383
Design of Steel Structures
F, W(4)

CCE 321

CCE 422
Green Building Materials
W, S (3)

BaccCore:
Contemporary Global Issues^^
F, W, S, U (3)

CCE 207

CEM 471
Electrical Facilities
F (4)

CEM 471

ARE 361
Fundamental for Light Design
W (4)

Focus Area Elective
Lighting: Light Dsgn 1
Mech: HVAC Dsgn
Structures: CE 372
S (4)

Focus Area Elective
Lighting: Light Dsgn 2
Mech: Blg. Energy Models
Structures: CE 481 (F/S)
F (4)

Focus Area Elective
Lighting: Daylighting
Mech: Mech Elective
Structures: CE 484
W (4)

Focus Area Elective
Lighting: Parametric Dsgn
Mech: Indoor Air Qlty
Structures: CE 3/4xx
S (4)

MTH 256, PH 213, ENGR 213, ENGR 212 *

CE/ARE 311
Fluid Mechanics
F, W (4)

CE 311

ARE 341
Fundamental of HVAC
W (4)

CCE 207

CEM 341
Construction Estimating I
S (4)

CEM 442

ARE 451
Advanced Construction
F (4)

ARE 341, ARE 361, CE 382

ARE 418
Prof. Practice – Capstone I
W (4)

ARE 418

ARE 419
Design – Capstone II
S (3)

ARE 310
Architecture Studio
F (4)

CCE 207

CEM 472
Mechanical Facilities
W (3)

ENGR 213, ST 314

CCE 321
Civil & Construction Engineering Materials
F, S, U (4)

CE 420
Engineering Planning
F, W (4)

BaccCore:
Difference, Power, Discrimination^^
F, W, S, U (3)

BaccCore:
Science, Tech, and Society^^^^
F, W, S, U (3)

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F, W, S

Recommended – ES 353, GEOG 203, GEO 309, SUS 331

Recommended – BA 432, BI 301, FES 365, GEOG 300, GEOG 331, H 388, PHL 440, SUS 350

Recommended – PH 332, ENGR 350, ENGR 363, PPOL 441, WSE 385

Cross listed as CE 311- Pre-req override required for ARE Students. Email your advisor for override.

Represents the term the course is offered (Fall, Winter and Spring term respectively).

NOTES:

1. Credits to graduate = 180.