Updated: 08/10/2023

ECOLOGICAL ENGINEERING

Academic Year: 2023-2024

FIRST YEAR

Fall (16 cr)

ENGR 100
The Oregon State Engineering Student
F,W,S, U (3)

CH 231&261
Chemistry
F,W, U (4/1)
← MTH 111Z (co)

MTH 251
Differential Calculus
F,W,S, U (4)
← MTH 112Z

WR 121Z
English Composition
F,W,S, U (4)

Winter (15-16 cr)

ENGR 102
Design Engineering and Problem Solving
F,W,S, U (3)

CH 232&262
Chemistry
W,S, U (4/1)
← CH 231&261

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

COMM 111Z/114/218Z
Speech
F,W,S, U (4/3/4)

Spring (16 cr)

ENGR 103
Engineering Computation and Algorithmic Thinking
F,W,S, U (3)
← ENGR 102 & MTH 112Z (co)

CH 233&263
Chemistry
F,S, U (4/1)
← CH 232&262

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

PH 211
Physics w/ Calculus
F,W,S, U (4)

SECOND YEAR

Fall (16 cr)

BEE 270
EcoE Ecology
F (3)

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

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

PH 212
Physics w/ Calculus
F,W,S, U (4)
← PH 211

HHS 231
Lifetime Fitness
F,W,S, U (2)

Winter (14-15 cr)

BEE 221
EcoE Fundamentals
W (3)

HHS 241/PAC
Lifetime Fitness Lab
F,W,S, U (1)

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

PH 213
Physics w/ Calculus
F,W,S, U (4)
← PH 212

Ethics^
F,W,S, U (3-4)

Spring (16 cr)

BEE 222
EcoE Computation
S (2)

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

MTH 264&265*
Intros to Matrix Algebra and Series
F, W, S, U (2+2)
← MTH 252

WR 227Z
Technical Report Writing
F,W,S, U (4)
← WR 121Z

AEC 250/ECON 201
Science & Public Policy
F,W,S, U (3)

Notes:

1. F,W,S, U: Represents term course is offered (Fall, Winter, Spring, Summer)
2. (_): Represents the credits of the course
3. Arrows: Represents prerequisites and co-requisites for that course
4. * MTH 264 + MTH 265 was formerly offered as MTH 306
5. # Fulfills Social Processes & Institutions baccalaureate core category
6. ^ Fulfills either a Perspectives or Synthesis baccalaureate core category, dependent on course chosen

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ECOLOGICAL ENGINEERING

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THIRD YEAR

Fall (16 cr)

BEE 320
Systems Anal. Model.
F (4)

BEE 311
Fluid Mechanics
F (4)
PH 212, MTH 254, & ENGR 211

FE 208
Forest Surveying
F, S (4)
MTH 112Z

SOIL 205&206
Principles of Soil Science
F,W,S (3/1)

Winter (14 cr)

BEE 322
EcoE Thermo & Transfer Proces
W (4)
BEE 320

BEE 312
Ecohydraulics
W (4)
BEE 311

FE 257
GIS & Forest Eng. App.
F,W (3)

Science Elective*
F,W,S (3)

Spring (14 cr)

BEE 361
EcoE Lab Course
S (3)
BEE 312

BEE 313
Ecohydrology
S (4)
BEE 312 & BEE 320

BEE 362
EcoE Microbial Processes
S (3)
BEE 320

Science Elective*
F,W,S (4)

FOURTH YEAR

Fall (15 cr)

BEE 481
EcoE Design I
F (4)
BEE 322

BEE 415
Professional Dev. Seminar
F (1)

Engineering Elective*
F,W,S (4)

Science Elective*
F,W,S (3)

Synthesis or Perspectives
F,W,S, U (3)

Winter (16 cr)

BEE 482
EcoE Design II
W (3)
BEE 481

BEE 468
Bioremediation
W (4)
BEE 221

Engineering Elective*
F,W,S (3)

Perspectives
F,W,S, U (3)

Perspectives
F,W,S, U (3)

Spring (14 cr)

BEE 483
EcoE Design III
S (2)
BEE 482

Synthesis
F,W,S, U (3)

Engineering Elective*
F,W,S (3)

Engineering Elective*
F,W,S (3)

Diff., Power & Discrim.
F,W,S, U (3)

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2. (_): Represents the credits of the course
3. Arrows: Represents prerequisites and co-requisites for that course
4. * Must take a minimum of 23 credits of upper division science and engineering electives