

# ELECTRICAL & COMPUTER ENGINEERING

## FIRST YEAR


## *Academic Year 2022-2023*


## SECOND YEAR


Fall
Winter
Spring
Fall
Winter
Spring


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


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

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


MTH 251 & MTH 252  
  
**ENGR 201**  
 Electrical  
 Fundamentals I  
 F, W, S, U, E (3)


ENGR 201  
  
**ENGR 202**  
 Electrical  
 Fundamentals II  
 W, S, U, E(3)


ENGR 201, ENGR 202 & MTH 256  
  
**ENGR 203**  
 Electrical  
 Fundamentals III  
 F, S (3)


Co-Req MTH 111  
  
**CH 201**  
 Chemistry for  
 Engineers  
 F, W (3)


**Perspectives  
 Biological Science**  
 F, W, S, U, E (4)


MTH 111  
  
**MTH 231**  
 Discrete Math I  
 F, W, S, U, E (4)


REC MTH 251, Co-Req MTH 252  
  
**PH 211**  
 Physics with  
 Calculus  
 F, W, S, U, E (4)


PH 211, REC MTH 252, & Co-Req MTH 254  
  
**PH 212**  
 Physics with  
 Calculus  
 F, W, S, U, E (4)


REC PH 212 & REC MTH 254  
  
**PH 213**  
 Physics with  
 Calculus  
 F, W, S, U, E (4)


MTH 112  
  
**MTH 251**  
 Differential Calculus  
 F, W, S, U, E (4)

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

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

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


MTH 252  
  
**MTH 264**  
 Intro to Matrix  
 Algebra  
 F, W, S, U (2)


MTH 254  
  
**MTH 255**  
 Vector Calculus II  
 F, W, S, U (4)


**WR 121**  
 English Composition  
 Alpha Sectioned  
 F, W, S, U, E (4)

**COMM  
 111/114**  
 Speech  
 F, W, S, U, E (3)

**Perspectives  
 Western Culture**  
 F, W, S, U, E (3)

ENGR 103  
  
**CS 162**  
 Intro to Comp. Sci. II  
 C++, C  
 F, W, S, U (4)

MTH 252  
  
**MTH 265**  
 Intro to Series  
 F, W, S, U (2)


Co-req MTH 231 or co-req MTH 251  
  
**ECE 271&2**  
 Digital Logic Design  
 & Lab  
 F, S, U (3+1)

**HHS 231**  
 Lifetime Fitness  
 F, W, S, U, E (2+1)

**PAC**  
 Physical Activity  
 F, W, S, U, E (1)

**Notes:**

1. F, W, S, U: Represents the term the course is offered (Fall, Winter, Spring, Summer, Ecampus)
2. ( \_ ): Represents the credits of the course
3. Arrows: Represents prerequisites, co-requisites
4. Summer Courses may be cancelled due to low enrollment
5. 180 total credits are needed to graduate
6. Students cannot S/U major courses

CS 162 & MTH 231  
  
**CS 261**  
 Data Structures  
 C  
 F, W, S, U (4)

# ELECTRICAL & COMPUTER ENGINEERING

## THIRD YEAR

## Academic Year 2022-2023

## FOURTH YEAR

Fall

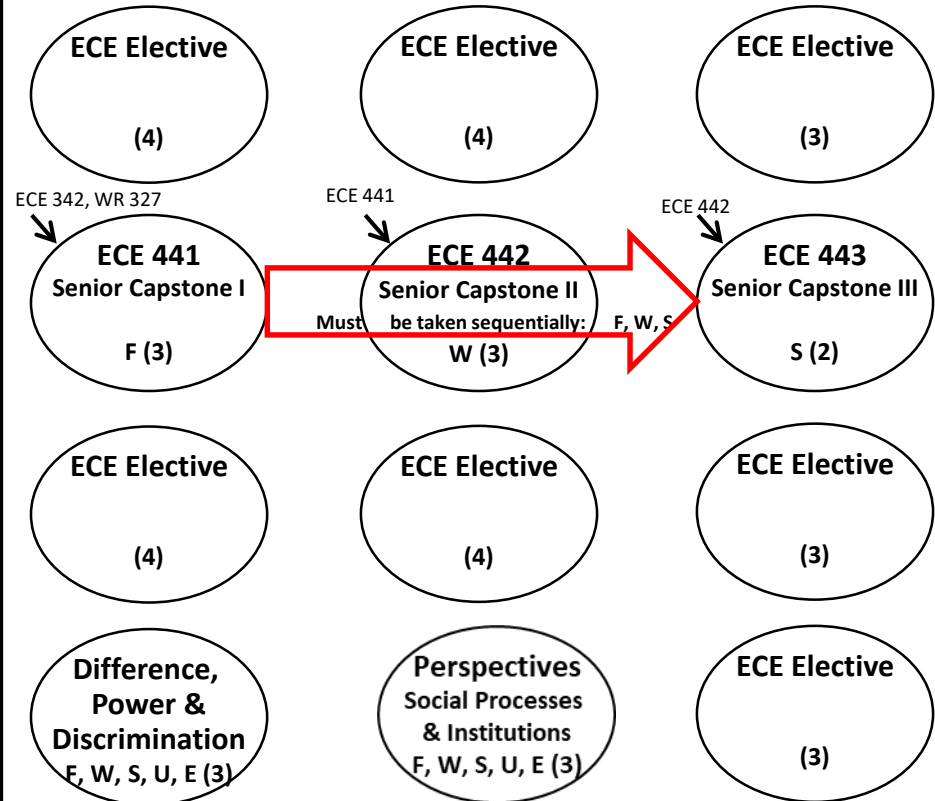
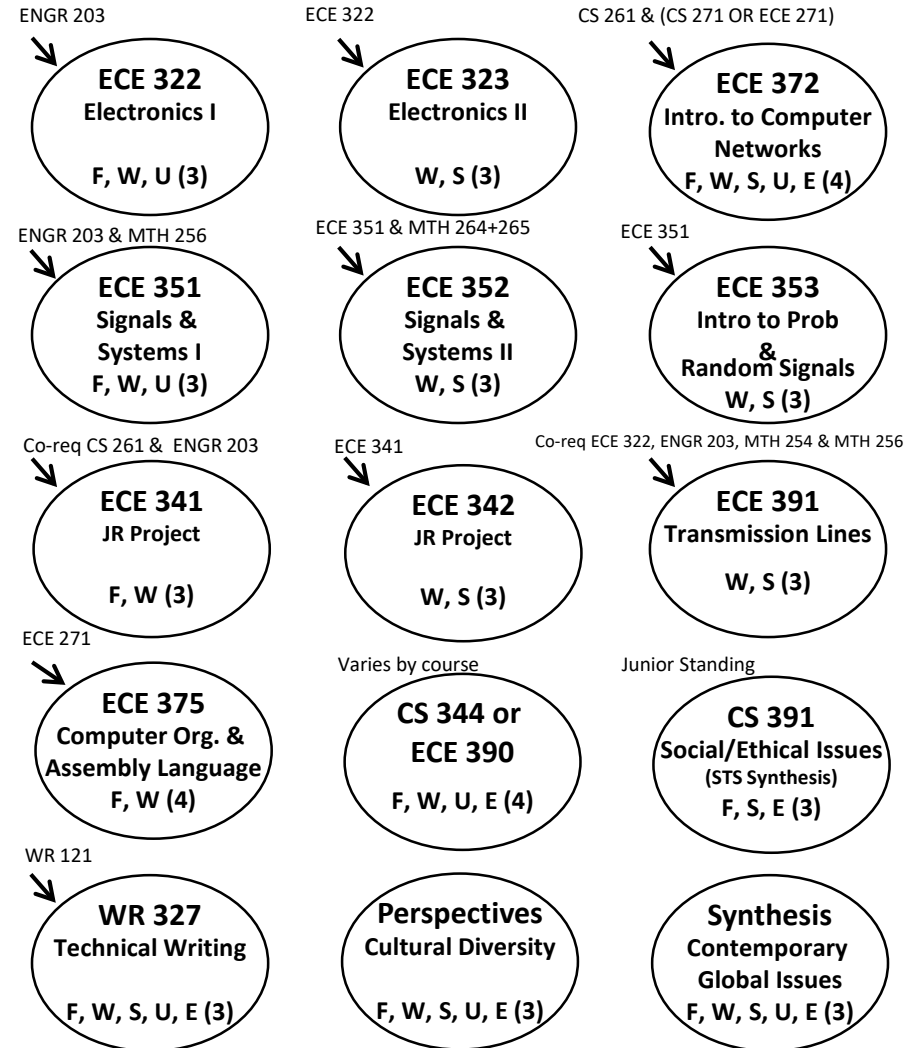
Winter

Spring

Fall

Winter

Spring



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6. Students cannot S/U major courses
7. CS 391 counts for both Major and Science, Technology and Society (Synthesis) credits