

ELECTRICAL AND COMPUTER ENGINEERING TRANSFER, AS OSU ADVISING GUIDE

Prerequisites and Course Availability per Term
(for complete information, see 2016-2017 UCC Catalog)

REVISED 11/20/16

| | UCC Course No. and Course Name | Term Offered | | | | Credits | Prerequisites/Notes | OSU Course No. | Credits | | |
|-----------------------------|--------------------------------|---|---|---|---|---------|---------------------|--------------------------|---|----|----|
| | | F | W | S | S | | | | | | |
| Term 1 | CH 221 ^E | General Chemistry I /Lec/Lab/Rec | x | | | | 5 | MTH 111 | CH 201 / CH 231 Lec & CH 261 Lab | 4 | |
| | ENGR 111 | Engineering Orientation I | x | | | | 3 | MTH 65 | ECE 111 | 2 | |
| | MTH 251 ^E | Calculus I | x | x | | | 5 | MTH 112 | MTH 251 | 4 | |
| | WR 121 ^E | English Composition: Intro to Argument | x | x | x | x | 4 | WR 115 or Placement Test | WR 121 | 3 | |
| | | | | | | | | | | 17 | |
| Term 2 | ENGR 112 ^E | Engineering Orientation II | | x | | | 3 | ENGR 111 | ENGR 112 | 3 | |
| | HPE 295 | Wellness & Health | x | x | x | x | 3 | | HHS 231 & HHS 241 | 3 | |
| | MTH 252 ^E | Calculus II | | x | x | | 4 | MTH 251 | MTH 252 | 4 | |
| | Perspectives | Social Processes & Institutions - See Advisor | x | x | x | x | 3 | | Perspectives Elective - Social Process & Instit | 3 | |
| | CS 161 | Computer Science I | | x | | | 4 | CS 160 MTH 111 | CS 161 | 4 | |
| | | | | | | | | | | 17 | |
| Term 3 | Perspectives | Biological Science With Lab - See Advisor | | | x | | 4 | | Biological Science Elective | 4 | |
| | | | | | | | | | | | |
| | MTH 253 ^E | Calculus III | | | x | | 4 | MTH 252 | UCC MTH 253 & MTH 261 = OSU MTH 306 | 4 | |
| | MTH 261 ^E | Linear Algebra | | | x | | 2 | MTH 111 Algebra | See note above for MTH 306 | | |
| | CS 162 | Computer Science II | | | x | | 4 | CS 161 | CS 162 | 4 | |
| | | | | | | | | | | 18 | |
| Term 4 | SP 111 ^E | Public Speaking | x | x | x | | 4 | WR 095 | COMM 111 | 3 | |
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| Term 5 | Perspectives | Western Culture - See Advisor | x | x | x | x | 3 | | Perspectives Elective - Western Culture | 3 | |
| | ENGR 201 ^E | Electrical Fundamentals I | x | | | | 4 | MTH 251 Co-requisite | ENGR 201 | 3 | |
| | MTH 254 ^E | Vector Calculus I | x | | | | 4 | MTH 252 | MTH 254 | 4 | |
| | PH 211 ^E | Physics I w/Calculus | x | | | | 5 | MTH 251 Co-requisite | PH 211 & PH 221 Rec | 4 | |
| | | | | | | | | | | | 16 |
| Term 6 | ENGR 202 ^E | Electrical Fundamentals II | | x | | | 4 | ENGR 201 | ENGR 202 | 4 | |
| | MTH 256 ^E | Differential Equations | | x | | | 4 | MTH 252 | MTH 256 | 4 | |
| | PH 212 ^E | Physics II w/Calculus | | x | | | 5 | PH 211 | PH 212 & PH 222 Rec | 4 | |
| | WR 227 | Technical Report Writing | x | x | x | x | 4 | WR 121 | WR 327 | 3 | |
| Term 7 | CS 260 | Data Structures | | | x | | 4 | CS 162 | CS 260 | 4 | |
| | ENGR 203 | Electrical Fundamentals III | | x | | | 4 | ENGR 202 | ENGR 203 | 3 | |
| | ENGR 271 | Digital Logic Design - Lecture | | x | | | 3 | ENGR 202 | ECE 271 | 3 | |
| | ENGR 272 | Digital Logic Design - Lab | | x | | | 1 | ENGR 202 | ECE 272 | 3 | |
| | PH 213 ^E | Physics III w/Calculus | | | x | | 5 | PH 212 | PH 213 & PH 223 Rec | 4 | |
| | | | | | | | | | | 17 | |
| TOTAL DEGREE CREDITS | | | | | | | 102 | | | | 91 |

*A grade of "C" or better is required in the indicated course all courses.

Program Advisor:

NOTES:

1. ^ERequired by OSU College of Engineering for entry into the Pro Program. Courses are also highlighted. All core classes are offered at UCC
2. Recommend student considering taking ENGR 211, ENGR 212, and ENGR 213 sequence. Not required for BS degree, but will help prepare for FE exam and provide background for other courses
3. Students can register at UCC for ENGR 203, ECE 271 and ECE 272. The instruction will be offered online through LBCC
4. MTH 255 will need to be taken at OSU or online
5. CS 160, CS 161, 162, and CS 260 are offered on campus at UCC.
6. MTH 231 currently will need to be taken online, but exploring offering on campus at UCC in 2017/18
7. Students can take 5 Perspectives Electives for Arts&Letters/Humanities & Social Science at UCC that transfer towards OSU General Education Requirements
Link to OSU/UCC General Ed Transfer for Bac Core Courses is <http://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-community-college>

ELECTRICAL & COMPUTER ENGINEERING

FIRST YEAR

Academic Year 2015-2016

SECOND YEAR

Fall

Winter

Spring

Fall

Winter

Spring

Co-Req MTH 111

ECE 111
Intro. to Electrical & Comp. Engr.
F (3)

MTH 111

ECE 112
Intro. to Electrical & Comp. Engr.
W (3)

CS 161

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

MTH 251 & 252

ENGR 201
Electrical Fundamentals I
F, W, S, U (3)

ENGR 201

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

ENGR 201, 202 & MTH 256

ENGR 203
Electrical Fundamentals III
F, S, U (4)

Co-Req MTH 111

CH 201
Chemistry for Engineers
F, W (3)

Co-Req MTH 112

CS 161
Intro to Comp. Sci. I
C++
F, W, S, U, E (4)

MTH 112

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

MTH 251, Co-Req 252

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

PH 211, MTH 252, & Co-Req MTH 254

PH 212
Physics with Calculus
F, W, S (4)

PH 212 & MTH 254

PH 213
Physics with Calculus
W, S, U (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 (4)

MTH 254

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

MTH 252

MTH 306
Matrix & Power Series Methods
F, W, S, U (4)

MTH 254

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

WR 121
English Composition Alpha Sectioned
F, W, S, U, E(3)

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

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

CS 162 & MTH 231

CS 261
Data Structures
C
F, W, S, U, E (4)

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

MTH 231 or 251

ECE 271&2
Digital Logic Design
F, S (3+1)

HHS 231 + 241/PAC
Lifetime Fitness
F, W, S, U, E (2+1)

Perspectives Social Processes & Institutions
F, W, S, U, E (3)

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 and co-requisites for that course
4. Shaded courses are required prior to admission to the Professional Program
5. Summer Courses may be cancelled due to low enrollment

ELECTRICAL & COMPUTER ENGINEERING

THIRD YEAR

Academic Year 2015-2016

FOURTH YEAR

Fall

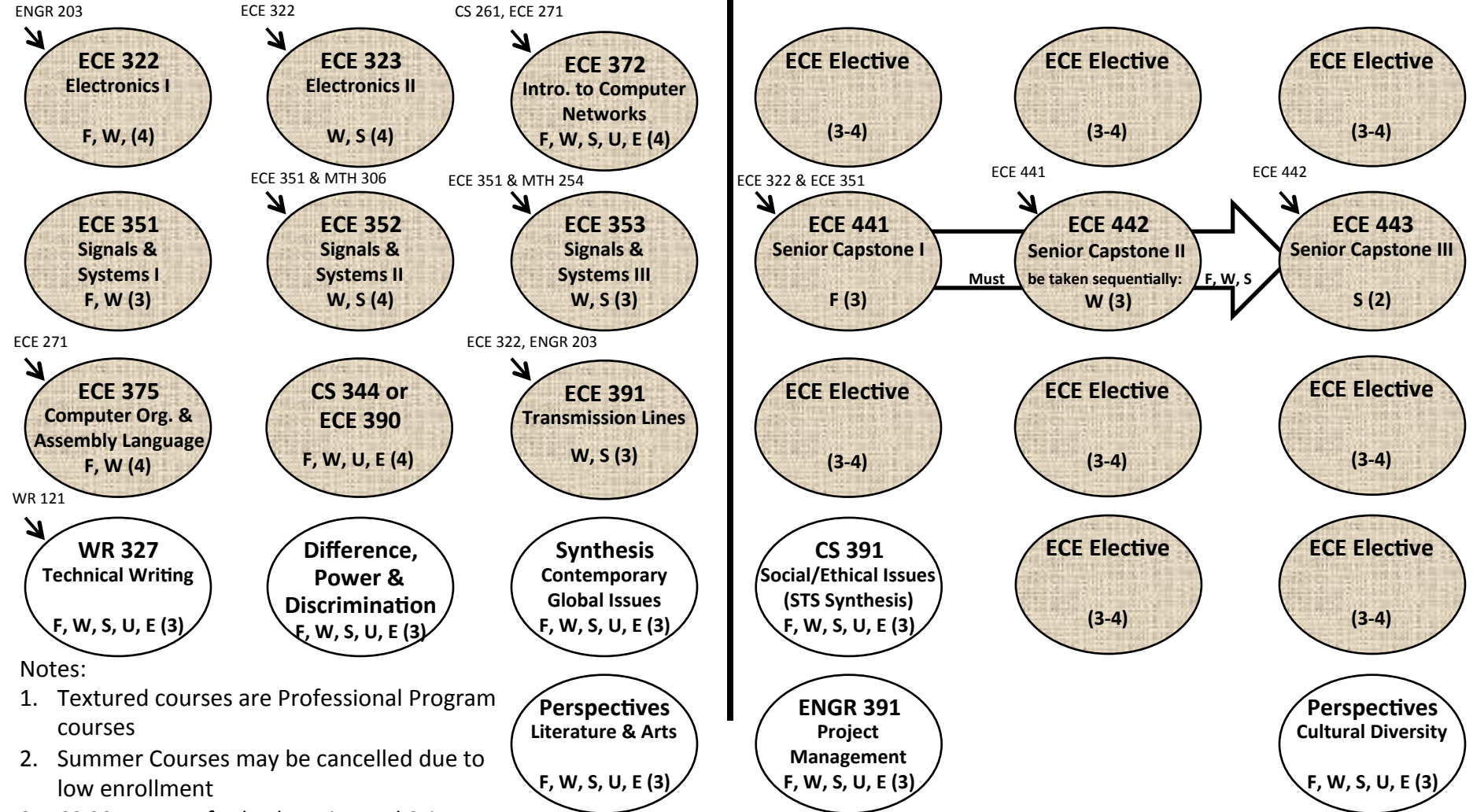
Winter

Spring

Fall

Winter

Spring



- Notes:
1. Textured courses are Professional Program courses
 2. Summer Courses may be cancelled due to low enrollment
 3. CS 391 counts for both Major and Science, Technology and Society (Synthesis) credits
 4. 180 total credits are needed to graduate