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.	UCC Course Name	Term Offered F	W	S	S	Credits	Prerequisites/Notes		OSU Course No.	Credits
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	17	CS 161	4
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
	SP 111[E]	Public Speaking	x	x	x		4	WR 095	18	COMM 111	3
Summer											
Term 4	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 5											
	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	17	WR 327	3
Term 6	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. [E]Required 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 ast UCC in 2017/18
7. Students can take 5 Perspectives Electives for Arts&Letters/Humanites & 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

Academic Year 2015-2016

FIRST YEAR

Fall

Co-Req MTH 111

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

Co-Req MTH 111

CH 201
Chemistry for Engineers
F, W (3)

MTH 112

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

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

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

Winter

MTH 111

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

Co-Req MTH 112

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

MTH 251

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

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

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

Spring

CS 161

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

MTH 112

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

MTH 252

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

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

SECOND YEAR

Fall

MTH 251 & 252

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

MTH 251, Co-Req 252

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

MTH 254

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

CS 162 & MTH 231

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

Winter

ENGR 201

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

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

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

MTH 252

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

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

Spring

ENGR 201, 202 & MTH 256

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

PH 212 & MTH 254

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

MTH 254

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

MTH 231 or 251

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

Notes:

1. F, W, S, U: Represents the term the course is offered (**F**all, **W**inter, **S**pring, S**u**mmer, **E**campus)
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

Academic Year 2015-2016

THIRD YEAR			FOURTH YEAR		
Fall	Winter	Spring	Fall	Winter	Spring
ENGR 203 → **ECE 322** Electronics I F, W, (4)	ECE 322 → **ECE 323** Electronics II W, S (4)	CS 261, ECE 271 → **ECE 372** Intro. to Computer Networks F, W, S, U, E (4)	**ECE Elective** (3-4)	**ECE Elective** (3-4)	**ECE Elective** (3-4)
ECE 351 Signals & Systems I F, W (3)	ECE 351 & MTH 306 → **ECE 352** Signals & Systems II W, S (4)	ECE 351 & MTH 254 → **ECE 353** Signals & Systems III W, S (3)	ECE 322 & ECE 351 → **ECE 441** Senior Capstone I F (3)	Must → ECE 441 → **ECE 442** Senior Capstone II be taken sequentially: W (3)	F, W, S → ECE 442 → **ECE 443** Senior Capstone III S (2)
ECE 271 → **ECE 375** Computer Org. & Assembly Language F, W (4)	**CS 344 or ECE 390** F, W, U, E (4)	ECE 322, ENGR 203 → **ECE 391** Transmission Lines W, S (3)	**ECE Elective** (3-4)	**ECE Elective** (3-4)	**ECE Elective** (3-4)
WR 121 → **WR 327** Technical Writing F, W, S, U, E (3)	**Difference, Power & Discrimination** F, W, S, U, E (3)	**Synthesis** Contemporary Global Issues F, W, S, U, E (3)	**CS 391** Social/Ethical Issues (STS Synthesis) F, W, S, U, E (3)	**ECE Elective** (3-4)	**ECE Elective** (3-4)
		Perspectives Literature & Arts F, W, S, U, E (3)	**ENGR 391** Project Management F, W, S, U, E (3)		**Perspectives** Cultural Diversity F, W, S, U, E (3)

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