

**CIVIL 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		
		F	W	S	S				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	
	DRF 112	Computer Aided Drafting (CAD) I	x				3	MTH 65	CCE 201	3	
	ENGR 111 ¹	Engineering Orientation I	x				3	MTH 65	CCE 101	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	
										20	
Term 2	CH 222 ^E	General Chemistry II		x			5	CH 221	CH 202+CH 205 Lab / CH 232 Lec & CH 262 Lab	4	
	GIS 234	Intro to Geographic Information Systems (GIS)		x			4	DRF 112	CCE 202	3	
	ENGR 112 ^E	Engineering Orientation II		x			3	ENGR 111	CCE 102	3	
	MTH 252 ^E	Calculus II		x	x		4	MTH 251	MTH 252	4	
										16	
Term 3	SOILS 205/206	Soil Science With Lab			x		4		Biological Science Elective	4	
	HPE 295	Wellness & Health	x	x	x	x	3		HHS 231 & HHS 241	3	
	MTH 253 ^E	Calculus III			x		4	DRF 112 CAD I	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	0	
	SP 111 ^E	Public Speaking	x	x	x		4	WR 095	COMM 111	3	
										17	
Term 4	ENGR 201 ²	Electrical Fundamentals	x				4	MTH 251 Co-requisite	ENGR 201	3	
	ENGR 211 ^E	Statics	x				4	MTH 112	ENGR 211	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	
	ECON 201 - 1	Economics					3	WR 121-123 & MTH 111	ECON 201 - Perspectives Elective - SP&I	3	
										20	
Term 5	ENGR 212	Dynamics		x			4	ENGR 211	ENGR 212	3	
	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	
	Perspectives-2	General Ed Req - See Advisor	x	x	x	x	3	Perspectives Elective	Perspectives Elective - Literature & Arts	3	
										16	
Term 6	ENGR 213 ^E	Strength of Materials			x		4	ENGR 211	ENGR 213	3	
	MTH 265	Statistics for Engineers & Scientists			x		4	MTH 252	ST 314	3	
	PH 213 ^E	Physics III w/Calculus			x		5	PH 212	PH 213 & PH 223 Rec	4	
	WR 227	Technical Report Writing	x	x	x	x	4	WR 222	WR 327	3	
										17	
TOTAL DEGREE CREDITS							106				88

Additional Courses for Dual Civil Engineering and Forestry Major

	UCC Course No. and Course Name	Term Offered				Credits	Prerequisites/Notes	OSU		
		F	W	S	S			Course No.	Credits	
	(1) See footnotes									
	FOR/NR 201	Intro to Natural Resources	x				3		CCE 101 Civil & Construction Engineering Orient	2
	FOR/NR 141	Tree & Shrub Identification	x				3		FOR 111 Introduction to Forestry	3
	FOR/SUR 161	Plane Surveying I			x		4	Coreq - MTH 112	FES 141 Tree & Shrub Identification	3
	FOR/SUR 209	Photogrammetry and Intro to Remote Sensing		x			4	MTH 112	FE 208 Forestry Surveying	4
	FOR/NR 240	Forest Biology	x				4		FOR 209 Forest Photogrammetry	3
									FES 240 Forest Biology	4
ADDITIONAL DEGREE CREDITS							18			

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

Program Advisor:

NOTES: Five Perspective Electives for Humanities/Social Studies can be taken at UCC. See 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>

^ERequired by OSU College of Engineering for entry into the Pro Program

¹ UCC ENGR 111 Engr Orientation I will transfer to OSU as either CCE 101 or FE 101 but not both. For dual Civil Engineering and Forest Engineering majors, either CCE101 or FE 101 will need to be taken at OSU.

² OSU is considering removing ENGR 201 from curriculum and replacing with upper division elective. If approved, will become effective in 2017/18. See advisor.

CIVIL ENGINEERING PROGRAM

2015-2016

PRE-ENGINEERING PROGRAM

Note: Course schedule and offerings subject to change. Check OSU Online Schedule of Classes when registering.

FRESHMAN

Cr.	Fall	Winter	Spring
1	MTH 251 ^E	MTH 252 ^E	MTH 254 ^E
2	Differential Calculus	Integral Calculus	Vector Calculus I
3	F,W,S	F,W,S	F,W,S
4			
5	CH 201 ^E	**CH 202	PH 211 ^E
6	Chem for Engrs	Chem for Engrs	Gen Physics/Calc
7	F,W	W,S	F,W,S
8	**CCE 101	CCE 102 ^E	ECON 201
9	CCE Orientation	Problem Solving & Technology	Intro to Microecon
10	WR 121 ^E	COMM 111/114 ^E	Perspective-- SP&I
11	aEnglish	Sp Communication	F,W,S
12	Composition	F,W,S	**CH 205 - LAB W,S
13	# Perspective --	#PAC or HHS 241-248	# HHS 231 -- Lifetime
14	Literature & Arts		Fitness & Health F,W,S
15	F,W,S		
16			

SOPHOMORE

Cr.	Fall	Winter	Spring	Cr.
	MTH 306 ^E	MTH 256 ^E	WR 327	1
	Matrix & Power	Applied Differential	Technical Writing	2
	Series Methods	Equations	F,W,S	3
	F,W,S	F,W,S		4
	PH 212 ^E	PH 213 ^E	Biological	5
	Gen Physics/Calc	Gen Physics/Calc	Science w/Lab	6
	F,W,S	W,S	F,W,S	7
	ENGR 211 ^E	ENGR 213 ^E	**ENGR 212	8
	Statics	Stength of Materials	Dynamics	9
	F,W,S	F,W,S	F,W,S	10
	**CCE 201	**CE 202	**ST 314	11
	Graphics & Design	Geospatial Info & GIS	Intro To Statistics	12
	F,W	W,S	F,W,S	13
			# Perspective --	14
			Cultural Diversity	15
			F,W,S	16

aEnrollment term is limited by alphabetical sectioning:

	Fall	Winter	Spring
WR 121	A-G	H-N	O-Z

Biological science classes with labs & without prerequisites:

Fall	Winter	Spring
ANS 121	ANS 121	ANS 121
BI 101	BI 102	BI 103
MB 230	MB 230	MB 230
SUS 102	SUS 102	SUS 102
FES 240	SOIL 205 & 206	FES 240
		SOIL 205 & 206
		BOT 101

*CSS 205 Ecampus only (F,W,S)

- E Required by College of Engineering for entry into the Professional Prog.
F, W, S = Term(s) in which course is offered.
- ** Prerequisites for Professional Program courses.
- # Courses may be taken for S/U grade.

PROFESSIONAL PROGRAM

JUNIOR

Cr.	Fall	Winter	Spring
1	CE 311	CE 313	CE 412
2	Fluid Mechanics	Hydraulic Engineering	Hydrology
3	F,W	W,S	F,S
4			
5	CE 381	CE 382	CE 481
6	Structural Theory I	Structural Theory II	Reinforced Concrete I
7	F,W	W,S	F,S
8			
9	CE 361	CE 372	CE 373
10	Surveying Theory	Geotechnical Engineering I	Geotechnical Engineering II
11		W,S	
12			
13	CCE 321	CE 392	ENVE 321
14	Civil & Construction	Intro to Highway Engineering	Environmental Engineering Fundamentals
15	Engineering Materials	W,S	
16	F,S		

SENIOR

Cr.	Fall	Winter	Spring	Cr.
	CE 383	CE 418 [^]	CE 419 [^]	1
	Design of Steel Structures	CE Professional Practice	Civil Infrastructure Design	2
	F,S			3
		CE 420		4
	CE 491	Engineering Planning	Technical Elective	5
	Transportation Engr	F,W	F,W,S	6
	F,S			7
		Technical Elective	# Synthesis --	8
	Technical Elective	F,W,S	Contemp Global Issues	9
	F,W,S		F,W,S	10
	# Perspective -- Diff, Power, & Discrim	ENGR 201	# Synthesis --	11
	F,W,S	Electrical Fund. I	Sci, Tech, & Society	12
		F,W,S	F,W,S	13
		# Perspectives --		14
		Western Culture		15
		F,W,S		16

- [^] Writing Intensive Course
- Admission to Professional Program required to register for these classes.

Total credits required for BS CE = 180 credit hours (average load = 15 credits per term)

Technical Electives are CoE upper division (300-600 level) courses not otherwise required in the major.

Note: If a course has no terms listed below it (e.g. F,W,S), it is only taught in the term it appears in.