

CONSTRUCTION ENGINEERING MANAGEMENT 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 231 Lec & CH 261 Lab	4	
	DRF 112 ^E	Computer Aided Drafting (CAD) I				x			3	MTH 65	CCE 201	3	
	ENGR 111	Engineering Orientation I				x			3	MTH 65	CCE 101	2	
	MTH 251 ^E	Calculus I				x	x		5	MTH 112	MTH 251	4	
												16	
Term 2	GIS 234 ⁵	Intro to Geographic Information Systems (GIS)					x		4		Free Elective	2	
	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	
	WR 121 ^E	English Composition: Intro to Argument				x	x	x	x	4	WR 115 or Placement Test	WR 121	3
	Perspectives	Literature & Arts - See Advisor				x	x	x	x	3		Perspectives Elective - Literature & Arts	3
												18	
Term 3	SUR 161	Surveying I						x	4	MTH 112	CEM 263	3	
	HPE 295	Wellness & Health				x	x	x	x	3		HHS 231 & HHS 241	3
	SP 111 ^E	Public Speaking				x	x	x		4	WR 095	COMM 111	3
	CIV 214	Civil3D						x		3	DRF 112	CCE 203 Virtual Design & Construction	3
	Perspectives	Cultural Diversity - See Advisor				x	x	x	x	3		Perspectives Elective - Cultural Diversity	3
												17	
Summer													
Term 4	BA 211 ^E	Principles of Accounting I				x			3		UCC BA 211 & BA 212 = OSU BA 215	4	
	ECON 201	Economics				x			3	WR 121-123 & MTH 111	ECON 201 - Perspectives Elective - SP&I	3	
	ENGR 211 ^E	Statics				x			4	MTH 112	ENGR 211	3	
	PH 211 ^E	Physics I w/Calculus				x			5	MTH 251 Co-requisite	PH 211 & PH 221 Rec	4	
													15
Term 5	BA 212 ^E	Principles of Accounting II							3		See above, UCC BA 211 & 212 = OSU BA 215		
	BA 226	Business Law				x	x	x	3	BA 211	BA 230	3	
	ECON 202	Economics					x		3	ECON 202	ECON 202 - Perspectives Elective - SP&I	3	
	PH 212 ^E	Physics II w/Calculus					x		5	PH 211	PH 212 & PH 222 Rec	4	
	PHL 202	Ethics					x		3		PHL 205 - Perspectives - Western Culture	4	
												17	
Term 6	ENGR 213 ^E	Strength of Materials						x	4	ENGR 211	ENGR 213	3	
	MTH 265 ^E	Statistics for Engineers & Scientists						x	4	MTH 105	ST 314	3	
	SOIL 205/206	Soil Science Lecture & Lab						x	4		Biological Science Elective	4	
	WR 227	Technical Report Writing				x	x	x	x	4	WR 222	WR 327	3
												16	
TOTAL DEGREE CREDITS								99				84	

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

Program Advisor:

- NOTES:**
- ^ERequired by OSU College of Engineering for entry into the Pro Program
 - GIS I course for OSU CEM program has been replaced with ENGR 390 Engineering Economics. Use as free elective
 - ENGR 390 Engineering Economics is not offered at UCC, and can be taken at OSU (and is available online from OSU)
 - 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>
 - GIS 134 is recommended as elective credit course since it aligns with Civil Engineering Transfer program and fulfills elective requirement. However, other electives will be accepted at OSU.

CONSTRUCTION ENGINEERING MANAGEMENT PROGRAM

2016-2017

PRE-ENGINEERING PROGRAM

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

FRESHMAN

SOPHOMORE

Cr.	Fall	Winter	Spring	Fall	Winter	Spring	Cr.
1	MTH 251^E Differential Calculus F,W,S	MTH 252^E Integral Calculus F,W,S	PH 211^E Gen Physics/Calc F,W,S	PH 212^E Gen Physics/Calc F,W,S	BA 215^E Fundamentals of Accounting F,W,S	WR 327 Technical Writing F,W,S	1
2							2
3							3
4							4
5	CH 201^E Chem for Engrs F,W	ECON 201 Intro to Microecon Perspectives - SP&I F,W,S	ECON 202 Intro to Macroecon Perspectives - SP&I F,W,S	CCE 201^E Graphics & Design F,W	CCE 203 Virtual Dsgn & Constr W,S	**CEM 263 Plane Surveying	5
6							6
7							7
8							8
9	CCE 101 CCE Orientation	CCE 102^E Problem Solving & Technology	COMM 111/114^E Sp Communication F,W,S	ST 314^E Intro Stats for Engrs F,W,S	ENGR 211^E Statics F,W,S	ENGR 213^E Strength of Materials F,W,S	9
10							10
11							11
12							12
13	WR 121^E ^a English Composition F,W,S	# HHS 231 -- Lifetime Fitness & Health F,W,S	# Perspectives - Cultural Diversity F,W,S	PHL 205 -- Ethics Perspectives - Western Culture F,W,S	Biological Science w/Lab F,W,S	ENGR 390^E Engineering Econ F,W,S	13
14							14
15							15
16							16
		# PAC, HHS 241 or MS 130				BA 230 Business Law F,W,S	
		Free Elective	Free Elective				

^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
SOIL 205 & 206	SOIL 205 & 206	SOIL 205 & 206
FES 240		FES 240
BOT 220		BOT 101
RNG 121		

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

F, W, S = Terms in which course is offered

** Prerequisites for Professional Program courses

Course may be taken for S/U grade.

PROFESSIONAL PROGRAM

JUNIOR

SENIOR

Cr.	Fall	Winter	Spring	Fall	Winter	Spring	Cr.
1	CCE 321 Civil & Construction Engineering Materials F,S	FE 315 Soil Engineering (or CE 372)	CEM 381 Structures I	CEM 383 Structures II	CE 427 Temp Construction Structures W,S	MGMT 453 Human Resources Management F,W,S	1
2							2
3							3
4							4
5	CEM 442 Building Const Management	CEM 311 Hydraulics W,S	CEM 341 Construction Estimating I	CEM 342 Construction Estimating II	Upper Division College of Business Elective F,W,S	H 385 Safety & Health Standards & Laws	5
6							6
7							7
8							8
9	CEM 471 Electrical Facilities	CEM 472 Mechanical Facilities	CE 424 Contracts & Specifications W,S	CEM 343 Construction Planning & Scheduling	CEM 443[^] Project Management for Construction W,S	# Synthesis -- Contemp Global Issues F,W,S	9
10							10
11							11
12							12
13	CEM 407- Seminar # Difference, Power, & Discrimination F,W,S	CE 365 Highway Location & Design	CEM 441 Heavy Civil Const Management	COMM Elective	BA 351 Managing Organizations F,W,S	# Synthesis -- Sci, Tech, & Society F,W,S	13
14							14
15							15
16							16
		Free Elective					

[^] Writing Intensive Course

Admission to Professional Program required to register for these classes

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

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.