

**ECOLOGICAL 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	x				5	MTH 111		CH 231 Lec & CH 261 Lab	4
	DRF 112	x				3	MTH 65			
	ENGR 111	x				3	MTH 65		BEE 101	3
	MTH 251 ^E	x	x			5	MTH 112		MTH 251	4
	WR 121 ^E	x	x	x	x	4	WR 115 or Placement Test	20	WR 121	3
Term 2	CH 222		x			5	CH 221		CH 232 Lec & CH 262 Lab	4
	GIS 234		x			4	DRF 112		CCE 202	3
	ENGR 112 ^E		x			3	ENGR 111		BEE 102	3
	MTH 252 ^E		x	x		4	MTH 251		MTH 252	4
	HPE 295	x	x	x	x	3		19	HHS 231 & HHS 241	3
Term 3	CH 223		x			5	CH 222		CH 233 Lec & CH 263 Lab	4
	SP 111 ^E	x	x	x		4	WR 095		COMM 111	3
	MTH 253 ^E			x		4	DRF 112 CAD I		UCC MTH 253 & MTH 261 = OSU MTH 306	4
	MTH 261 ^E			x		2	MTH 111 Algebra		See note above for MTH 306	0
	SOILS 205/206			x		4		19	SOILS 205/206	4
Summer										
Term 4	BI 211	x				5	CH 221		BI 211 Principles of Biology	4
	ENGR 211 ^E	x				4	MTH 112		ENGR 211	3
	MTH 254 ^E	x				4	MTH 252		MTH 254	4
	PH 211 ^E	x				5	MTH 251 Co-requisite		PH 211 & PH 221 Rec	4
	Perspectives ²	x	x	x	x	3	Perspectives Elective	21	Perspectives Elective	3
Term 5	BI 212		x			5	BI 211		BI 212 Principles of Biology	4
	MTH 256 ^E		x			4	MTH 252		MTH 256	4
	PH 212 ^E		x			5	PH 211		PH 212 & PH 222 Rec	4
	WR 227	x	x	x	x	4	WR 222		WR 327	3
	Perspectives ²	x	x	x	x	3	Perspectives Elective	21	Perspectives Elective	3
Term 6	ENGR 213 ^E			x		4	ENGR 211		ENGR 213	4
	MTH 265			x		4	MTH 252		ST 314	4
	PH 213 ^E			x		5	PH 212		PH 213 & PH 223 Rec	4
	BI 213				x	5	BI 213		BI 213 Principles of Biology	4
TOTAL DEGREE CREDITS³						118				98

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

Program Advisor:

NOTES:

This is a rigorous degree program and may take a minimum of 5 years to complete. Transfer students typically take 3 years of course work at UCC or OSU. Meeting with Advisor early and development of term x term planner is important

- ^ERequired by OSU College of Engineering for entry into the Pro Program
- Five lower division Perspective Electives required for OSU General Ed <http://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-community-college>
Link to OSU/UCC General Ed Transfer for Bac Core Courses is
- A maximum of 108 credit hours count towards the UCC AS degree. Additional courses can be taken at UCC. A maximum of 124 credits (OSU course credits) will transfer.

Table 3 B. S. in Ecological Engineering - 4 Year Example Program

Freshman Year			Sophomore Year		
Fall	Winter	Spring	Fall	Winter	Spring
Differential Calculus MTH 251* 4	Integral Calculus MTH 252* 4	Vector Calculus MTH 254* 4	Applied Diff. Eqns. MTH 256* 4	EcoE Fundamentals I BEE 221 3	Matrix and Power Series MTH 306* 4
English Composition WR 121* 3	Speech Communications COMM 111 or 114* 3	General Physics/Calc PH 211* 4	General Physics/Calc PH 212* 4	General Physics/Calc PH 213* 4	Intro to Atmospheric Sciences ATS 210 3
General Chemistry CH 231(4 cr) + CH 261 (1 cr)* 5	General Chemistry CH 232 (4 cr) + 262 (1 cr) 5	General Chemistry CH 233 (4 cr) + 263 (1 cr) 5	Principles of Biology BI 211 4	Principles of Biology BI 212 4	Principles of Biology BI 213 4
Ecological Engineering I BEE 101 3	Lifetime Fitness HHS 231 2	Ecological Engineering II BEE 102* 3	Soil Science SOIL 205 4	Statics ENGR 211* 3	Strength of Materials ENGR 213* 3
	Lifetime Fitness HHS 241/251 or PAC course 1			Engineering Statistics ST 314 3	Technical Writing WR 327 3
15	15	16	16	18	17

Junior Year			Senior Year		
Fall	Winter	Spring	Fall	Winter	Spring
Systems Analysis and Modeling BEE 320 4	EcoE Thermo Transfer Processes BEE 322 4	Ecological Engineering Laboratory BEE 361 3	EcoE Design I (WIC) BEE 469 4	EcoE Design II (WIC) BEE 470 4	Science Elective II 3
Ecological Fluid Mechanics BE 311 4	Ecohydraulics BEE 312 4	Ecohydrology BEE 313 4	Engineering Elective III 4	BEE 468 Bioremediation 4	Engineering Elective IV 4
Ecology BI 370 3	GIS & Forest Engineering App FE 257 3	Engineering Econ & Proj Mgmt ENGR 391 3	Science Elective II 3	Engineering Elective V 3 (4)	Engineering Elective VI 3
Science Elective I 3 (4)	Engineering Elective I 3 (4)	Engineering Elective II 4	Synthesis-Contemporary Global Issues Bacc Core Elective 3	Perspectives-Literature and the Arts Bacc Core Elective 3	Western Culture Bacc Core elective (if take PHL 205 as ethics course, take STS Bacc Core instead) 3
Intro to Environ Law & Policy AREC 250 3	The Responsible Engineer IE 380 3	Difference, Power, and Discrimination (DPD) Bacc Core Elective 3	Professional Development Seminar BEE 415 1	Perspectives-Cultural Diversity Bacc Core Elective 3	
17 (18)	17 (18)	17	15		13

*Required by the College of Engineering for entrance into the Professional Program

UCC courses are highlighted

UCC will offer ATS 201 Climate Science in 2017/18. See Advisor.