

Environmental Engineering

Environmental Engineering							
	UI Course #	University of Iowa Course Title	SH		EICC Course #	Eastern Iowa CC District Course Title	SH
Semester 1							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	BOTH	MAT 210	Calculus I	4
					MAT 216	Calculus II	4
	ENGR:1100	Introduction to Engineering Problem Solving	3		EGR 160	Engineering I	3
	CHEM:1110	Principles of Chemistry I & Lab	4	CHOOSE 1	CHM 165	General Chemistry I	4
					CHM 166	General Chemistry I	5
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	CHOOSE 1	ENG 105	Composition I	3
					ENG 107	Composition I:Technical Writing	3
				CHOOSE 1	ENG 106	Composition II	3
ENG 108					Composition II:Technical Writing	3	
				SPC 112	Public Speaking	3	
ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered			
	Total		16				
Semester 2							
Spring	MATH:1560	Engineering Math II: Multi-Variable Calculus	4		MAT 219**	Calculus III	4
	MATH:2550	Engineering Math III: Matrix Algebra	2		No equivalent course offered		
	ENGR:1300	Introduction to Engineering Computing	3	CHOOSE 1	CIS 171	Java	3
					CIS 172	Java	4
					CIS 161	C++	3
	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I	5
	CHEM:1120	Principles of Chemistry II	4		CHM 175/176	General Chemistry II	4/5
CEE:1010	Introduction to Careers in Environmental Engr.	0		No equivalent course offered			
	Total		17				
Semester 3							
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations with Laplace	4
	CHEM:2210	Organic Chemistry I	3	CHOOSE 1	CHM 261	Organic Chemistry I	4
					CHM 263	Organic Chemistry I	5
	ENGR:2110	Engineering Fundamentals I:Statics	2		EGR 180	Statics	3
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		EGR 285	Introduction to Electrical Science	3
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		EGR 290	Thermodynamics	3
	CEE:1030	Intro to Earth Science (No Lab Required)	3		No equivalent course offered		
	Total		17				
Semester 4							
Spring	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent course offered		
	ENGR:2710	Dynamics	3		EGR 280	Dynamics	3
	ENGR:2720	Materials Science	3		EGR 380	Mechanics of Deformable Bodies	3
	CEE:2010	CEE Professional Practice and Ethics	1		No equivalent course offered		
	CEE:3155	Principles of Environmental Engineering (w/lab)	4		No equivalent course offered		
		General Education Component #1	3				
	Total		17				

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Semester 5							
Fall	CEE:4158	Solid and Hazardous Waste	3		No equivalent course offered		
	ENGR:2510	Fluid Mechanics	4		No equivalent course offered		
		General Education Component #2	3		No equivalent course offered		
	BIOL:1411	Foundations of Biology (Elective Focus Area #1)	4	BOTH	BIO 114	General Biology IA	4
					BIO 115	General Biology IIA	4
		Elective Focus Area #2	3				
	CEE:3001	Leadership Skills for Engineers	1		No equivalent course offered		
	Total	18					
Semester 6							
Spring	CEE:3430	Water Treatment (w/lab)	4		No equivalent course offered		
	CEE:3371	Principles of Hydraulics and Hydrology Engin	3		No equivalent course offered		
		Elective Focus Area #3	3		No equivalent course offered		
		Elective Focus Area #4	3				
		General Education Component #3	3				
	CEE:3002	Technical Communication in CEE	1		No equivalent course offered		
		Total	17				
Semester 7							
Fall	CEE:4157	Environmental Engineering Design	3		No equivalent course offered		
	CEE:4374	Water Resources Design	3		No equivalent course offered		
	CEE:5150	Environmental Chemisty	3				
	CEE:4102	Groundwater (Elective Focus Area #5)	3				
		General Education Component #4	3				
	CEE:3003	Project Management Skills	1		No equivalent course offered		
		Total	16				
Semester 8							
Spring	CEE:3084/4850	Project Design & Management in CEE	3		No equivalent course offered		
	CEE:4150	Air Pollution Control Technology	3				
		Elective Focus Area #6	3				
		Elective Focus Area #7	3				
		General Education Component #5	3				
		Total	15				

2017-18 Curriculum

updated June 2018

* 1sh; does not count toward 128 sh total required for graduation

**Students must have completed Calculus I, II, and III to receive credit for Engineering Math II