

ENVIRONMENTAL ENGINEERING

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	UI Course #	University of Iowa Course Title	SH		ICCC Course #	Iowa Central CC 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		No equivalent course offered		
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General Chemistry I	4
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	ALL	ENG 105	Composition I	3
					ENG 106	Composition II	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 172	Java	4
					CIS 162	C++	4
	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I	5
	CHEM:1120	Principles of Chemistry II	4		CHM 175	General Chemistry II	4
	CEE:1010	Intro to Careers in Environmental Engineering	0				
		Total	17				
Semester 3							
Fall	MATH2560	Engineering Math IV: Differential Equations	3		MAT 226	Differential Equations with Laplace	3
	CHEM:2210	Organic Chemistry I	3		CHM 261	Organic Chemistry I	4
	ENGR:2110	Engineering Fundamentals I – Statics	2		No equivalent course offered		
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		No equivalent course offered		
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		No equivalent course offered		
	CEE:1030	Introduction 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		No equivalent course offered		
	ENGR:2720	Materials Science	3		No equivalent course offered		
	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			
	BIOL:1411	Foundations of Biology (Elective Focus Area #1)	3	BIO 112	General Biology I	4
		Elective Focus Area #2	3			
	CEE:3001	Leadership Skills for Engineers	1		No equivalent course offered	
		Total	17			
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			
		Elective Focus Area #4	3			
		General Education Component #3	3			
	CEE:3002	Technical Communciation 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 Chemistry	3		No equivalent course offered	
	CEE:4102	Groundwater (Elective Focus Area #5)	3		No equivalent course offered	
		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:4159	Air Pollution Control Technology	3		No equivalent course offered	
		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