

**Environmental Engineering**

	UI Course #	University of Iowa Course Title	SH		ILCC Course #	Iowa Lakes Course Title	SH
<b>Semester 1</b>							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	<b>BOTH</b>	MAT 211	Calculus I	5
					MAT 217	Calculus II	5
	ENGR:1100	Engineering Problem Solving I	3		No equivalent course offered		
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 166	General Chemistry I	5
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	<b>CHOOSE 1</b>	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		<b>16</b>				
<b>Semester 2</b>							
Spring	MATH:1560	Engineering Math II – Multivariable Calculus	4		Mat 218**	Calculus III	3
	MATH:2550	Engineering Math III – Matrix Algebra	2		No equivalent course offered		
	ENGR:1300	Engineering Problem Solving II	3	<b>CHOOSE 1</b>	CIS 171	Java	3
					CIS 162	C++	4
					CIS 161	C++	3
	PHYS:1611	Introductory Physics I with Lab	4		PHY 212	Classical Physics I	5
	CHEM:1120	Principles of Chemistry II & Lab	4		CHM 176	General Chemistry II	
CEE:1010	Introduction to Careers in Environmental Engineering	0					
	Total		<b>17</b>				
<b>Semester 3</b>							
Fall	MATH:2560	Engineering Math IV – Differential Equations	3		MAT 227	Differential Equations with Laplace Transforms	4
	CHEM:2210	Organic Chemistry I	3		CHM 263	Organic Chemistry I	5
	ENGR:2110	Engineering Fundamentals I: Statics	2		EGT 139	Statics Engineering	3
	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	Intro to Earth Science (No Lab Required)	3		No equivalent course offered		
		Total		<b>17</b>			
<b>Semester 4</b>							
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		<b>17</b>			
	Total		<b>18</b>				

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<b>Semester 5</b>							
Fall	CEE:4158	Soil and Hazardous Wastes	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		BIO 112	General Biology I	4
		Elective Focus Area #2	3		No equivalent course offered		
	CEE:3001	Leadership Skills for Engineers	1		No equivalent course offered		
	<b>Total</b>		<b>18</b>				
<b>Semester 6</b>							
Spring	CEE:3430	Water Treatment (with lab)	4		No equivalent course offered		
	CEE:3371	Principles of Hydraulics and Hydrology	3		No equivalent course offered		
		Elective Focus Area #3	3				
		Elective Focus Area #4	3				
		General Education Component #3	3				
	CEE:3002	Technical Communication in CEE	1		No equivalent course offered		
	<b>Total</b>		<b>17</b>				
<b>Semester 7</b>							
Fall	CEE:4157	Environmental Engr Design (CEE Design Course)	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 Foccus Area #5)	3		No equivalent course offered		
		General Education Component #4	3				
	CEE:3003	Project Management Skills	1		No equivalent course offered		
	<b>Total</b>		<b>16</b>				
<b>Semester 8</b>							
Spring	CEE:3084/ 4850	Project Design & Management in Civil Engr	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				
	<b>Total</b>		<b>15</b>				

2017-18 Curriculum

updated May 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