

## Environmental Engineering

UI Course #	University of Iowa Course Title	SH		IHCC Course #	Indian Hills Course Title	SH	
<b>Semester 1</b>							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	<b>BOTH</b>	MAT 210	Calculus I	4
					MAT 216	Calculus II	4
	ENGR:1100	Engineering Problem Solving I	3		EGR 160	Engineering I	3
	CHEM:1110	Principles of Chemistry I	4	<b>BOTH</b>	CHM 157	Principles of Chemistry I	3
					CHM 158	Principles of Chemistry II	3
					<b>OR</b>	CHM 166	General Chemistry I
	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 (Writing Component I)	3
					ENG 106	Composition II (Writing Component II)	3
					SPC 101	SPC 101: Fundamentals of Oral Communication (Speech Component)	3
					SPC 112	SPC 112: Public Speaking (Speech Component)	3
ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered			
	Total	16					
<b>Semester 2</b>							
Spring	MATH:1560	Engineering Math II – Multivariable Calculus	4		MAT 219**	Calculus III	4
	MATH:2550	Engineering Math III – Matrix Algebra	2		EGR 162	Engineering Math - Matrix Algebra	2
	ENGR:1300	Engineering Problem Solving II	3	<b>CHOOSE 1</b>	EGR 165	Engineering II	3
					CIS 171	Java	3
					CIS 169	C#	3
	PHYS:1611	Introductory Physics I with Lab	4	<b>BOTH</b>	PHY 200	Classical Physics I	3
					PHY 201	Classical Physics II	3
	CHEM:1120	Principles of Chemistry II & Lab	4	<b>BOTH</b>	CHM 158	Principles of Chemistry II	3
					CHM 159	Principles of Chemistry III	4
					<b>OR</b>	CHM 176	General Chemistry II
CEE:1010	Introduction to Careers in Environmental Engr.	0					
	Total	17					
<b>Semester 3</b>							
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 226	Differential Equations with Laplace	3
	CHEM:2210	Organic Chemistry I	3	<b>BOTH</b>	CHM 251	Organic Chemistry I	3
					CHM 252	Organic Chemistry II	3
	ENGR:2110	Engineering Fundamentals I: Statics	2		EGR 180	Statics	3
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		EGR 284	Intro to Electrical Circuits	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					
<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	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)		4	<b>BOTH</b>	BIO 120	General Biology ID	4
						BIO 121	General Biology IID	3
		Elective Focus Area #2	3					
	CEE:3001	Leadership Skills for Engineers	1		No equivalent course offered			
	<b>Total</b>		<b>18</b>					
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			
		<b>Total</b>		<b>17</b>				
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					
	CEE:4102	Groundwater (Elective Focus Area #5)	3					
		General Education Component #4	3					
	CEE:3003	Project Management Skills	1		No equivalent course offered			
		<b>Total</b>		<b>16</b>				
Semester 8								
Spring	CEE:3084/4850	Project Design & Management in CEE	3		No equivalent course offered			
	CEE:4159	Air Pollution Control Technology	3					
		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 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