

Computer Science and Engineering

	UI Course #	University of Iowa Course Title	SH		ILCC Course #	Iowa Lakes Course Title	SH
Semester 1							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	BOTH	MAT 211	Calculus I	5
					MAT 217	Calculus II	5
	ENGR:1300	Engineering Problem Solving II	3	CHOOSE 1	CIS 171	Java	3
					CIS 162	C++	4
					CIS 161	C++	3
	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	CHOOSE 1	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 – Multivariable Calculus	4		Mat 218**	Calculus III	3
	MATH:2550	Engineering Math III – Matrix Algebra	2		No equivalent course offered		
	CS:1210	Computer Science I: Fundamentals	4		No equivalent course offered		
	PHYS:1611	Introductory Physics I with Lab	4		PHY 212	Classical Physics I	5
		General Education Component #1	3				
		Total	17				
Semester 3							
Fall	MATH:2560	Engineering Math IV – Differential Equations	3		MAT 227	Differential Equations with Laplace Transforms	4
	PHYS:1612	Introductory Physics II	4		PHY 222	Classical Physics II	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		
		Total	15				
Semester 4							
Spring	CS:2210	Discrete Structures	3		No equivalent course offered		
	ECE:2400	Linear Systems I	3		No equivalent course offered		
	ECE:2410	Principles of Electronic Instrumentation	4		No equivalent course offered		
	ENGR:2730	Computers in Engineering	3		No equivalent course offered		
		General Education Component #2	3				
		Total	16				

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Semester 5							
Fall	STAT:2020	Probability and Stat for Engineering & Phys Sci	3			No equivalent course offered	
	ECE:3320	Intro to Digital Design	3			No equivalent course offered	
	CS:2230	Computer Science II, Data Structures	4			No equivalent course offered	
	ECE:3330	Introduction to Software Design	3			No equivalent course offered	
		General Education Component #3	3				
	ECE:3000	Professional Seminar	1			No equivalent course offered	
		Total		17			
Semester 6							
Spring	CS:3330	Algorithms	3			No equivalent course offered	
	ECE:3350	Computer Architecture and Organization	3			No equivalent course offered	
	ECE:3360	Embedded Systems and System Software	3			No equivalent course offered	
		Elective Focus Area #1	3				
		General Education Component #4	3				
	CS:3820	Programming Language Concepts	3			No equivalent course offered	
		Total		18			
Semester 7							
Fall	ECE:4880	Principles of CSE Design	3			No equivalent course offered	
		Elective Focus Area #2 (technical, CS)	3			No equivalent course offered	
		Elective Focus Area #3 (technical, ECE)	3			No equivalent course offered	
	ECE:3540	Communication Networks	3			No equivalent course offered	
	CS:3620	Operating System	3			No equivalent course offered	
		Total		15			
Semester 8							
OR	ECE:4890	Senior CSE Design	3			No equivalent course offered	
	CS:4330	Theory of Computation (Theory Elective)	3			No equivalent course offered	
	CS:4350	Logic in Computer Science (Theory Elective)	3			No equivalent course offered	
Spring		Elective Focus Area #4 (advanced CS)	3			No equivalent course offered	
		Elective Focus Area #5 (advanced ECE)	3			No equivalent course offered	
		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