

Industrial Engineering

Industrial Engineering							
UI Course #	University of Iowa Course Title	SH		DMACC Course #	DMACC 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:1100	Introduction to Engineering Problem Solving	3		EGR 166	Engineering Graphics/Conceptual Design	4
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General/Inorganic Chemistry I	4
	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
					ENG 108	Composition II: Technical Writing	3
SPC 101	Fundamentals of Oral Communication	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		MAT 148	Linear Algebra w/ Applications	4
	ENGR:1300	Introduction to Engineering Computing	3	CHOOSE 1	CIS 161	C++	3
					CIS 169	C#	3
					CIS 171	Java	3
				OR BOTH	CIS 125	Intro to Programming Logic	3
	EGR 155	Engineering C/C++	2				
PHYS:1611	Introductory Physics I	4		PHY 213	Classical Physics I	6	
	General Education Component #1	3					
	Total	16					
Semester 3							
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations with Laplace	4
	PHYS:1612	Introductory Physics II (Without Lab)	3		PHY 223	Classical Physics II	6
	ENGR:2110	Engineering Fundamentals I: Statics	2		EGR 180	Statics	3
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		No equivalent course offered		
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		No equivalent course offered		
	PSY:1001	Elementary Psychology (General Education#2)	3		PSY 111	Introduction to Psychology	3
	IE:2000	Sophomore Seminar: Industrial Engineering	0		No equivalent course offered		
	Total	17					
Semester 4							
Spring	IE:2500	Engineering Economy	3		No equivalent course offered		
	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent course offered		
	ENGR:2720	Material Science	3		No equivalent course offered		
	IE:3500	Information Systems Design	3		No equivalent course offered		
		Elective Focus Area #1	3				
	Total	15					

Semester 5					
Fall	IE:3610	Stochastic Modeling	3		No equivalent course offered
	ENGR:2760	Design for Manufacturing	3		No equivalent course offered
	IE:3400	Human Factors	3		No equivalent course offered
	IE:3700	Operations Research	3		No equivalent course offered
		General Education Component #3	3		
	Total		15		
Semester 6					
Spring	IE:3300	Manufacturing Systems	3		No equivalent course offered
	IE:3450	Ergonomics	3		No equivalent course offered
	IE:3760	Applied Linear Regression	3		No equivalent course offered
	IE:3750	Digital Systems Simulation	3		No equivalent course offered
		Elective Focus Area #2	3		
		General Education Component #4	3		
	IE:3000	Professional Seminar: Industrial Engineering	0		No equivalent course offered
	Total		18		
Semester 7					
Fall	IE:3350	Process Engineering	4		No equivalent course offered
	IE:3600	Quality Control	3		No equivalent course offered
		Elective Focus Area #3	3		
		Elective Focus Area #4	3		
		General Education Component #5	3		
	Total		16		
Semester 8					
Spring	IE:4600	Industrial Engineering Design Project (IEDP)	4		No equivalent course offered
		Systems Elective	3		No equivalent course offered
		Elective Focus Area #5 (Math/Science)	3		
		Elective Focus Area #6	3		
		Elective Focus Area #7	3		
	IE:3000	Professional Seminar: Industrial Engineering	0		No equivalent course offered
	Total		16		

2017-2018 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