

**Mechanical Engineering**

	UI Course #	University of Iowa Course Title	SH		KCC Course #	Kirkwood 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		CHM 165	General Chemistry I	4
	RHET:1030	Rhetoric (Choose one in each section: Writing Component 1, Writing Component 2, Speech Component)	4		ENG 105	Composition I (Writing Component I)	3
				<b>CHOOSE 1</b>	ENG 106	Composition II (Writing Component II)	3
					ENG 108	Composition II: Tech (Writing Component II)	3
					ENG 120	College Writing (Writing Component II)	5
				<b>CHOOSE 1</b>	SPC 101	Fund. of Oral Comm. (Speech Component)	3
SPC 112	Public Speaking (Speech Component)	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: Multi-Variable Calculus	4		MAT 219**	Calculus III	4
	ENGR:1300	Engineering Problem Solving II	3	<b>CHOOSE 1</b>	CIS 171	Java Programming I	3
					CIS 175	Java Programming II	3
					EGR 167	Engineering II	4
					CSC 142	Computer Science	4
	PHYS:1611	Introductory Physics I	4		PHY 212	Classical Physics I	5
	MATH:2550	Engineering Math III: Matrix Algebra	2		MAT 149	Linear Algebra	3
	General Education Component #1	3					
	Total	<b>16</b>					
<b>Semester 3</b>							
Fall	MATH:2560	Engineering Math IV: Differential Equations	3		MAT 227	Differential Equations/LaPlace	4
	PHYS:1612	Introductory Physics II (Without Lab)	3		PHY 222	Classical Physics II	5
	ENGR:2110	Engineering Fundamentals I: Statics	2		EGR 180	Statics	3
	ENGR:2120	Engineering Fundamentals II: Electrical Circuits	3		EGR 285	Introduction to Electrical Science	4
	ENGR:2130	Engineering Fundamentals III: Thermodynamics	3		EGR 290	Thermodynamics	3
		General Education Component #2	3				
	ME:2020	Sophomore Seminar: Mechanical Engineering	0		No equivalent course offered		
		Total	<b>17</b>				

Semester 4						
	ENGR:2720	Materials Science	3		EGR 170	Material Science 3
	ENGR:2750	Mechanics of Deformable Bodies	3		EGR 380	Mechanics of Deformable Bodies 3
OR	ENGR:2760	Design for Manufacturing	3		No equivalent course offered	
	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent course offered	
Spring	ENGR:2710	Dynamics	3		EGR 280	Dynamics 3
		Elective Focus Area #1	3			
		Total	15			
Semester 5						
	MATH:3550	Engineering Math V: Vector Calculus	3		No equivalent course offered	
	ENGR:2510	Fluid Mechanics	4		No equivalent course offered	
OR	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent course offered	
	ENGR:2760	Design for Manufacturing	3		No equivalent course offered	
Fall	ENGR:2730	Computers in Engineering (Section 002)	2		No equivalent course offered	
	ME:3351	Engineering Instrumentation	2		No equivalent course offered	
		Elective Focus Area #2	3			
	ME:3091	Professional Seminar: Mechanical Engineering	0		No equivalent course offered	
	Total	17				
Semester 6						
Spring	ME:3040	Thermodynamics II	3		No equivalent course offered	
	ME:3045	Heat Transfer	3		No equivalent course offered	
	ME:3052	Mechanical Systems	4		No equivalent course offered	
		Elective Focus Area #3	3			
		General Education Component #3	3			
		Total	16			
Semester 7						
	ME:4048	Energy Systems Design	4		No equivalent course offered	
	ME:4055	Mechanical Systems Design	3		No equivalent course offered	
OR		Elective Focus Area #4	3			
	ME:4086	Mechanical Engineering Design Project	3		No equivalent course offered	
OR		Elective Focus Area #5	3			
	ME:4080	Experimental Engineering	4		No equivalent course offered	
Fall		General Education Component #4	3		No equivalent course offered	
	ME:3091	Professional Seminar: Mechanical Engineering	0		No equivalent course offered	
		Total	16			
Semester 8						
OR	ME:4086	Mechanical Engineering Design Project	3		No equivalent course offered	
		Elective Focus Area #4	3			
OR	ME:4080	Experimental Engineering	4		No equivalent course offered	
		Elective Focus Area #5	3			
Spring		Elective Focus Area #6	3			
		Elective Focus Area #7	3			
		General Education Component	3			
		Total	16			