## University of Iowa - College of Engineering & Kirkwood Community College



		Mechanic	al l	Engineer	ring		
	UI Course #	University of Iowa Course Title	SH		KCC Course #	Kirkwood Course Title	SH
Semeste	MATH:1550	Engineering Math I: Single Variable Calculus	4	вотн	MAT 210 MAT 216	Calculus I	4
	ENGR:1100 CHEM:1110	Engineering Problem Solving I Principles of Chemistry I	3		EGR 160 CHM 165	Engineering I General Chemistry I	3
	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
				CHOOSE 1	ENG 106	Composition II (Writing Component II)	3
Fall					ENG 108	Composition II: Tech (Writing Component II)	3
					ENG 120	College Writing (Writing Component II)	5
				CHOOSE 1	SPC 101	Fund. of Oral Comm. (Speech Component)	3
				CHOOSE I	SPC 112	Public Speaking (Speech Component)	3
	ENGR:1000	Engr Success for First Year Students	1		No equivalent	course offered	
		Total	16				
Semeste	r 2						
	MATH:1560	Engineering Math II: Multi-Variable Calculus	4		MAT 219**	Calculus III	4
	ENGR:1300	Engineering Ducklam Calving II	2	CHOOSE 1	CIS 171	Java Programming I	3
l <u>.</u> .		I Engineering Droblem Colving II	2	CHOOSE 1	CIS 175	Java Programming II	3
Corina		Engineering Problem Solving II	3	CHOOSE 1	CIS 175 EGR 167	Java Programming II Engineering II	3
Spring		Engineering Problem Solving II	3	CHOOSE 1	EGR 167	Engineering II	_
Spring	PHYS:1611			CHOOSE 1	EGR 167 CSC 142	Engineering II Computer Science	4
Spring	PHYS:1611 MATH:2550	Introductory Physics I	4	CHOOSE 1	EGR 167 CSC 142 PHY 212	Engineering II Computer Science Classical Physics I	4 4 5
Spring	PHYS:1611 MATH:2550	Introductory Physics I Engineering Math III: Matrix Algebra	4 2	CHOOSE 1	EGR 167 CSC 142	Engineering II Computer Science	4
Spring		Introductory Physics I Engineering Math III: Matrix Algebra General Education Component #1	4 2 3	CHOOSE 1	EGR 167 CSC 142 PHY 212	Engineering II Computer Science Classical Physics I	4 4 5
	MATH:2550	Introductory Physics I Engineering Math III: Matrix Algebra	4 2	CHOOSE 1	EGR 167 CSC 142 PHY 212	Engineering II Computer Science Classical Physics I	4 4 5
Spring Semeste	MATH:2550	Introductory Physics I Engineering Math III: Matrix Algebra General Education Component #1	4 2 3	CHOOSE 1	EGR 167 CSC 142 PHY 212	Engineering II Computer Science Classical Physics I	4 4 5
	MATH:2550	Introductory Physics I Engineering Math III: Matrix Algebra General Education Component #1 Total	4 2 3 16	CHOOSE 1	EGR 167 CSC 142 PHY 212 MAT 149	Engineering II Computer Science Classical Physics I Linear Algebra	4 4 5 3
	MATH:2550 r 3 MATH:2560	Introductory Physics I Engineering Math III: Matrix Algebra General Education Component #1 Total Engineering Math IV: Differential Equations	4 2 3 16	CHOOSE 1	EGR 167 CSC 142 PHY 212 MAT 149	Engineering II Computer Science Classical Physics I Linear Algebra  Differential Equations/LaPlace	4 4 5 3
Semeste	MATH:2550 r3 MATH:2560 PHYS:1612	Introductory Physics I Engineering Math III: Matrix Algebra General Education Component #1 Total  Engineering Math IV: Differential Equations Introductory Physics II (Without Lab)	4 2 3 16 3	CHOOSE 1	EGR 167 CSC 142 PHY 212 MAT 149 MAT 227 PHY 222	Engineering II Computer Science Classical Physics I Linear Algebra  Differential Equations/LaPlace Classical Physics II	4 4 5 3
	MATH:2550  r3  MATH:2560  PHYS:1612  ENGR:2110	Introductory Physics I Engineering Math III: Matrix Algebra General Education Component #1 Total  Engineering Math IV: Differential Equations Introductory Physics II (Without Lab) Engineering Fundamentals I:Statics Engineering Fundamentals II: Electrical	4 2 3 16 3 3 2	CHOOSE 1	EGR 167 CSC 142 PHY 212 MAT 149 MAT 227 PHY 222 EGR 180	Engineering II Computer Science Classical Physics I Linear Algebra  Differential Equations/LaPlace Classical Physics II Statics	4 5 3
Semeste	MATH:2550  r 3  MATH:2560  PHYS:1612  ENGR:2110  ENGR:2120	Introductory Physics I Engineering Math III: Matrix Algebra General Education Component #1 Total  Engineering Math IV: Differential Equations Introductory Physics II (Without Lab) Engineering Fundamentals I:Statics Engineering Fundamentals II: Electrical Circuits Engineering Fundamentals III: Thermodynamics	4 2 3 16 3 3 2 3	CHOOSE 1	EGR 167 CSC 142 PHY 212 MAT 149 MAT 227 PHY 222 EGR 180 EGR 285	Engineering II Computer Science Classical Physics I Linear Algebra  Differential Equations/LaPlace Classical Physics II Statics Introduction to Electrical Science	4 5 3 4 5 3
Semeste	MATH:2550  r 3  MATH:2560  PHYS:1612  ENGR:2110  ENGR:2120	Introductory Physics I Engineering Math III: Matrix Algebra General Education Component #1 Total  Engineering Math IV: Differential Equations Introductory Physics II (Without Lab) Engineering Fundamentals I:Statics Engineering Fundamentals II: Electrical Circuits Engineering Fundamentals III:	3 3 3 2 3	CHOOSE 1	EGR 167 CSC 142 PHY 212 MAT 149 MAT 227 PHY 222 EGR 180 EGR 285	Engineering II Computer Science Classical Physics I Linear Algebra  Differential Equations/LaPlace Classical Physics II Statics Introduction to Electrical Science Thermodynamics	4 5 3 4 5 3

Semeste	er 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
	ENGR:2760	Design for Manufacturing	3		No equivalen	t course offered	
OR	STAT:2020	Probability and Stat for Engineering & Phys Sci	3		No equivalent course offered		
	ENGR:2710	Dynamics	3		EGR 280	Dynamics	3
Spring		Elective Focus Area #1	3				
		Total	15				
emeste							
	MATH:3550	Engineering Math V: Vector Calculus	3			t course offered	
	ENGR:2510	Fluid Mechanics	4		No equivalen	t course offered	
OR	STAT:2020	Probability and Stat for Engineering & Phys Sci	3			t course offered	
	ENGR:2760	Design for Manufacturing	3		No equivalen	t course offered	
	ENGR:2730	Computers in Engineering (Section 002)	2		No equivalen	t course offered	
Fall	ME:3351	Engineering Instrumentation	2		No equivalen	t course offered	
		Elective Focus Area #2	3				
	ME:3091	Professional Seminar: Mechanical	0		No equivalen	t course offered	
		Engineering	ļ -		- cquiraion		
		Total	17				
emeste		<del>-</del>					
	ME:3040	Thermodynamics II	3			t course offered	
	ME:3045	Heat Transfer	3			t course offered	
Spring	ME:3052	Mechanical Systems	4		No equivalen	t course offered	
		Elective Focus Area #3	3				
		General Education Component #3	3 <b>16</b>				
emeste	yr 7	Total	10				
emeste	ME:4048	Energy Systems Design	4		No equivalen	t course offered	
	ME:4055	Mechanical Systems Design	3			t course offered	
	WIE.4033	Elective Focus Area #4	3		ivo equivalen	t course oriered	
OR	ME:4086	Mechanical Engineering Design Project	3		No equivalen	t course offered	
0.5		Elective Focus Area #5	3				
OR	ME:4080	Experimental Engineering	4		No equivalen	t course offered	
		General Education Component #4	3			t course offered	
<b>5</b> -11	N4E-2004	Professional Seminar: Mechanical	Nia androlas				
Fall	ME:3091	Engineering	0		No equivalen	t course offered	
		Total	16				
emeste	er 8						
OR	ME:4086	Mechanical Engineering Design Project	3		No equivalen	t course offered	
		Elective Focus Area #4	3				
OR	ME:4080	Experimental Engineering	4		No equivalen	t course offered	
OR		Elective Focus Area #5	3				
		Elective Focus Area #6	3				
Spring		Elective Focus Area #7	3				
		General Education Component	3				
		Total	16				

2017-18 Curriculum Guide

updated June 2018

 $<sup>\</sup>ensuremath{^{*}}$  1sh; does not count toward 128 sh total required for graduation

<sup>\*\*</sup>Students must have completed Calculus I, II, and III to receive credit for Engineering Math II